

| Techn. Datenblatt                                                                                                                                       |                                                               | Technical data sheet                                                                                                                                    |                                   |                         |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------|---------------------|
|                                                                                                                                                         |                                                               | 02.2024                                                                                                                                                 |                                   | Blatt / page 1 von 2    |                     |
| Lieferant/ supplier <b>HEXPOL COMPOUNDING GMBH</b><br><b>D-41836 HÜCKELHOVEN</b>                                                                        |                                                               | Kunde /Customer <b>diverse/miscellaneous</b>                                                                                                            |                                   |                         |                     |
| Mischung / compound <b>HEXFLAME® 45-2500</b>                                                                                                            |                                                               | Spezifikation/specification<br><b>EN 455 45-2 R22/R23 HL3</b>                                                                                           |                                   |                         |                     |
| EPDM solid , 50 Shore A, high performance, flame retardant , extrusion compound, non-halogen (<0,02%)                                                   |                                                               |                                                                                                                                                         |                                   |                         |                     |
| Pos.                                                                                                                                                    | Eigenschaften/<br>properties                                  | Methode<br>method                                                                                                                                       | Einheit<br>unit                   | Sollwert<br>requirement | Ergebnis<br>result  |
| 1                                                                                                                                                       | Elastomer / polymer                                           | DIN ISO 1629                                                                                                                                            |                                   | EPDM                    | EPDM                |
| 2                                                                                                                                                       | Vernetzung / curing system                                    |                                                                                                                                                         |                                   | -                       | Schwefel/sulphur    |
| 3                                                                                                                                                       | Farbe / color                                                 |                                                                                                                                                         |                                   | schwarz/black           | schwarz/black       |
| 4                                                                                                                                                       | Dichte / specific gravity                                     | EN ISO 1183                                                                                                                                             | g/cm³                             | -                       | approx. 1,47        |
| 5                                                                                                                                                       | Härte / hardness                                              | DIN ISO 7619-1                                                                                                                                          | SH A                              | 50+-5                   | 50                  |
| 6                                                                                                                                                       | Zugfestigkeit / tensile strength                              | DIN 53 504                                                                                                                                              | N/mm²                             | -                       | 6,7                 |
| 7                                                                                                                                                       | Reißdehnung / elongation at break                             | DIN 53 504                                                                                                                                              | %                                 | -                       | 550                 |
| 8                                                                                                                                                       | Weiterreißwiderstand / tear strength                          | DIN ISO 34-1 A                                                                                                                                          | N/mm                              | -                       | 3                   |
| 9                                                                                                                                                       | Druckver.rest/ compr. set 24h/70°C                            | ISO 815                                                                                                                                                 | %                                 | -                       | 13                  |
| 10                                                                                                                                                      | Druckver.rest/ compr. set 24h/100°C                           | ISO 815                                                                                                                                                 | %                                 | -                       | 29                  |
| 11                                                                                                                                                      | Druckver.rest/ compr. set 24h/-25°C                           | ISO 815                                                                                                                                                 | %                                 | -                       | 90                  |
| 12                                                                                                                                                      | Ozonbeständigkeit/ ozon resistance                            | DIN ISO 1431-1                                                                                                                                          |                                   | -                       | beständig/resistant |
| 13                                                                                                                                                      | Nitrosaminfrei/ nitrosamine generating                        | Es werden <b>keine</b> Rohstoffe eingesetzt die krebserregende Nitrosamine bilden/ <b>no</b> carcinogenic nitrosamine generating raw materials are used |                                   |                         |                     |
| 14.1                                                                                                                                                    | Halogenfrei / non-halogen                                     |                                                                                                                                                         | halogenfrei / non-halogen <0,02 % |                         |                     |
| 14.2                                                                                                                                                    | REACH/SVHC Konformität/compliance                             | <b>23-Jan 2024</b>                                                                                                                                      | entspricht/ compliant             |                         |                     |
| 15                                                                                                                                                      | Kältebruchtemperatur / cold brittleness temperature           | ASTM D 2137 A                                                                                                                                           | °C                                | -                       | -                   |
| 16                                                                                                                                                      | Elektr. Durchgangswiderstand/<br>Electr. Volume resistivity   | IEC 60093<br>100V                                                                                                                                       | Ohmcm                             | -                       | 7,3E+14             |
| 17                                                                                                                                                      | Elektr. Oberflächenwiderstand/<br>Electr. Surface resistivity | IEC 60093<br>100V                                                                                                                                       | Ohmcm                             | -                       | 9,5E+11             |
| 18                                                                                                                                                      | Gebrauchstemperaturbereich/<br>service temperature range      | -                                                                                                                                                       | °C                                | -                       | -40 / +100          |
| 19                                                                                                                                                      | Abriebbeständigkeit / abrasion resistance                     | DIN ISO 4649                                                                                                                                            | mm³                               | -                       | 520                 |
| 20                                                                                                                                                      | <b>EN 455 45 classification (11/2021)</b>                     |                                                                                                                                                         | class                             |                         | <b>R22/23 HL3</b>   |
| 20.1                                                                                                                                                    | Rauchdichte / smoke density<br>Gasanalyse/ gas analysis       | EN ISO 5659-2                                                                                                                                           | Ds max                            | max. 150<br>(HL3)       | 47                  |
| 20.2                                                                                                                                                    | Sauerstoff-Index /<br>Limiting Oxygen Index LOI               | ISO 4589-2                                                                                                                                              | %                                 | min. 32<br>(HL3)        | 38,8                |
| 20.3                                                                                                                                                    | Toxizität / toxicity                                          | NF X 70-100-1<br>NF X 70-100-2                                                                                                                          | CIT NLP                           | max. 0,75<br>(HL3)      | 0,07                |
| Die Ergebnisse wurden an vulkanisierten (10 min/180°C) Prüfplatten ermittelt.<br>Test results were determined on vulcanized (10 min/180°C) test sheets. |                                                               |                                                                                                                                                         |                                   |                         |                     |

Convertors and suppliers of die cut gaskets, tape, sheeting, fabrications, machined plastic components, rubber mouldings, extrusions and adhesives.



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|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------|-----------------|-------------------------|--------------------|
|                                                                                                       |                                                                         | 02.2024                                                       |                 | Blatt / page 2 von 2    |                    |
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| Mischung / compound <b>HEXFLAME® 45-2500</b>                                                          |                                                                         | Spezifikation/specification<br><b>EN 455 45-2 R22/R23 HL3</b> |                 |                         |                    |
| EPDM solid , 50 Shore A, high performance, flame retardant , extrusion compound, non-halogen (<0,02%) |                                                                         |                                                               |                 |                         |                    |
| Pos.                                                                                                  | Mischungs-Eigenschaften,<br>unvernetzt/<br>Compound properties, uncured | Methode<br>method                                             | Einheit<br>unit | Sollwert<br>requirement | Ergebnis<br>result |
| 30                                                                                                    | Mooney Viskosität / Mooney viscosity<br>ML 1+4 100°C                    | ISO 289-1                                                     | MU              | -                       | 61                 |
| 31                                                                                                    | Mooney Scorch 130°C                                                     | ISO 289-1                                                     |                 |                         |                    |
| 31.1                                                                                                  | Viskosität / viscosity                                                  |                                                               | MU              | -                       | 47                 |
| 31.2                                                                                                  | T5                                                                      |                                                               | min             | -                       | 9                  |
| 32                                                                                                    | Rheologie / rheology MDR 2000<br>0,5° 1,67 Hz 3'180°C                   | ISO 6502                                                      |                 |                         |                    |
| 32.1                                                                                                  | ML                                                                      |                                                               | dNm             | -                       | 1,6                |
| 32.2                                                                                                  | MH                                                                      |                                                               | dNm             | -                       | 11                 |
| 32.3                                                                                                  | T5                                                                      |                                                               | min             | -                       | 0,85               |
| 32.4                                                                                                  | T10                                                                     |                                                               | min             | -                       | 1                  |
| 32.5                                                                                                  | TS2                                                                     |                                                               | min             | -                       | 1,3                |
| 32.6                                                                                                  | T90                                                                     |                                                               | min             | -                       | 2,5                |

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any particular application. All data relating to suitable uses and descriptions information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The company holds no legal or contractual responsibility for information supplied.

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