RUBBER & PLASTICS
C.B.FROST

# HEXFLAME® 45-1000

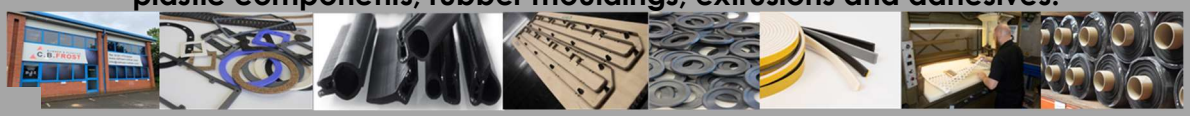
EN45545-2 compliant 60A EPDM Rubber

## TECHNICAL DATASHEET

| | | | | |
|---|---|---|---|---|
| **HEXFLAME 45-1000** | Date:- 26/06/2019 | | **EN 455 45 classification (2016) EN 45545-2** | |
| | | | | |
| **Specification/Property** | **Method** | **Unit** | **Spec limits** | **Result** |
| Polymer | BS ISO 1629 | | EPDM | EPDM |
| Curing system | | | | Sulphur |
| Color | | | Black | Black |
| Specific gravity | BS ISO 1183 | g/cm3 | | approx. 1,50 |
| Hardness | BS ISO 48 | SH A | 60+-5 | 64 |
| Tensile Strength | BS ISO 37 | $N/mm^2$ | | ca. 5 |
| Elongation at Break | BS ISO 37 | % | | > 350 |
| Tear Strength | BS ISO 34-1 | N/mm | | ca. 5 |
| Compr. set 24h/70°C | BS ISO 815 | % | | 20 |
| Compr. set 24h/100°C | BS ISO 815 | % | | 40 |
| Ozone resistance 168h/40°C | BS ISO 1431-1 | | No cracks | No cracks |
| 50 pphm/20% elongation | | | | |
| Nitrosamine Generating | No carcinogenic nitrosamine generating raw materials are used | | | |
| Halogen free | | | | non-halogen (<0,02 %) |
| REACH/SVHC compliant | as of 17/01/2023 | | | compliant |
| **EN 455 45 classification (2016) EN 45545-2** | | | | **class R22/23, HL3** |
| Smoke Density | EN ISO 5659-2 | Ds max | max. 150 (HL3) | 57 |
| Limiting Oxygen Index LOI | ISO 4589-2 | % | 32 % min. (HL3) | 32.8 |
| Toxicity | NF X 70-100-1 | CIT NLP | max. 0,75 (HL3) | 0.16 |
| | NF X 70-100-2 | | | |
| HCl | | mg/g | | 1.07 |
| HBr | | mg/g | | 0 |
| HFl | | mg/g | | 0 |
| **Electrical Volume Resistivity** | **IEC 60093** | **Ohmcm** | | **1,5E+14** |
| | | | | |
| **Service Temperature Range** | | **°C** | | **-30 °C - +100 °C** |
| | | | | |
| **Low Temp Brittleness Point** | | **°C** | | **-35** |
| | | | | |
| | | | | |
| Test results were determined on vulcanized (10 min/180°C) test sheets. | | | | |

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.





Date reviewed:
02/10/2023