



**Material Data Sheet: RKFT-EPDM-OM ® Black**

**APPLICATIONS**

- Gasket / Seal for automotive, electronics, construction, HVAC etc.
- Packaging for medicine equipment, glass, furniture etc.
- Insulation for cooler, air conditioner, freezer, construction, Engineering
- Sealing material for sound-proof,

|                        |  |     |                            |                                       |    |    |                  |                                     |
|------------------------|--|-----|----------------------------|---------------------------------------|----|----|------------------|-------------------------------------|
| Classification         | ASTMD-1056   | 2A0 | A2                         | B2                                    | C2 | F1 | M                | P                                   |
| Fire behavior          | based on FMVSS 302   |     | passed at 5.0 mm thickness |                                       |    |    |                  |                                     |
| Compliant according    | Guideline 2011/65/EU (RoHS)  |     | &                          | Regulation (EG) Nr. 1907/2006 (REACH) |    |    | &                | Conflict Mineral Reporting Template |
| Material Base          | Ethylene – Propylene Diene –Monomer  |     |                            |                                       |    |    | ISO 1629         |                                     |
| Density                | 100 (±20) kg/m <sup>3</sup>  |     |                            |                                       |    |    | ISO 845          |                                     |
| General Description    | Semi closed cell, soft-elastic cellular rubber<br>Cell size about 0.7 ± 0.2mm                          |     |                            |                                       |    |    | ASTM –D 1056     |                                     |
| Corrosion resistance   | On bare Cu: strong corrosion<br>On bare Ag: strong corrosion   |     |                            |                                       |    |    | DIN 53 428       |                                     |
| Temperature Range      | -40°C to 100°C/ short time/ to +120 °C   |     |                            |                                       |    |    | without standard |                                     |
| Compression Set        | 23 °C, 50%: ≤ 5% (after 0,5 h), ≤ 3% (after 24 h)<br>40 °C, 50%: ≤ 10% (after 0.5 h), ≤ 5% (after 24h) |     |                            |                                       |    |    | ASTM –D 1056     |                                     |
| Linear shrinkage       | ≤ 5% (3 h at 80 °C and 6,3 mm thickness)   |     |                            |                                       |    |    | WSK-M2D419-17    |                                     |
| Compression-deflection | ≤ 5 KPa (at 25% compression)<br>≤ 10 KPa (at 50%compression)   |     |                            |                                       |    |    | ASTM – D 1056    |                                     |
| Tensile strength       | ≥ 100 KPa  |     |                            |                                       |    |    | ISO 1798         |                                     |
| Elongation at break    | ≥ 200%   |     |                            |                                       |    |    | ISO 1798         |                                     |



# ROOP KOEPP FOAM TECHNOLOGIES PVT. LTD.

An Indo-German Joint Venture

|   |  |              |
|---|--|--------------|
| Sealing Test  | passed at 70%  | WSK-M2D419-A |
| Flammability  | Passed for 5 mm  | FMVSS 302    |
| Electrical conductivity   | $> 10^{12} \Omega\text{cm}$ (test specimen: 120 x 120 x 10 mm; voltage: 100 V)   | ASTM D991-89 |
| Thermal conductivity  | $\leq 0,05 \text{ W/mK}$ (at appr. 50% compression)  | ISO 8302     |
| Outdoor exposure  | Very good weather resistance   | ISO 877      |
| Ozone resistance  | Resistant to cracking (0)  | ISO 1431-1   |
| Sheet Size/Thickness  | <p>Block size with production skin minimum 2,000 (78.74) x 1,000 (39.37) x 55 (2.17) mm (in), 1x skin. The material can be further processed by splitting, cutting, sawing, punching, gluing, milling, grinding and coating with adhesives.</p> <p>To split a stable sheet, a minimum thickness of 3 mm is required.</p> <p>Determination of linear dimensions as per DIN EN ISO 1923 Standard .</p> |              |
| Resistances   | <p>Oil = medium<br/>Ozone = very good<br/>Air + UV = very good</p> <p>Detailed information can only be obtained after formal testing in individual cases.</p>  |              |
| Remarks   | <p>The material is very soft and flexible. Furthermore, it shows excellent acoustic insulation properties. According to EN ISO 10634-2, the calculated noise dampening reaches about 45% at 1000 Hz and a material thickness of 10 mm.</p>   |              |
| Suggestions for disposal  | <p>It does not contain hazardous compounds such as cadmium, lead, CFCs, formaldehyde, etc. which require compliance to waste disposal regulations from 27/04/2009.</p> <p>Under the observance of local waste disposal regulations, it may therefore be disposed of as household waste on landfills or domestic waste incineration plants.</p>   |              |
| <p>Note:- All RKFT products are as per the Material Data Sheet. This does not absolve users from the responsibility of conducting their own tests. We do not provide any product liability or recall related support.</p> |  |              |

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