



Material Data Sheet: RKFT-EPDM-O-100 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 (CMRT)
Material Base	Ethylene – Propylene Dien –Monomer						ISO 1629	
Density	100 (±20) kg/m ³						ISO 845	
General Description	Closed cell, Soft-Elastic Cellular Rubber Cell size about 0.2 – 0.6 mm						ASTM –D 1056	
Corrosion resistance	On bare Cu: strong corrosion 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) 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) ≤ 10 kPa (at 50%compression)						ASTM – D 1056	
Tensile strength	≥ 100 kPa						ISO 1798	
Elongation at break	≥ 150%						ISO 1798	
Leakage test	passed at 70%						ISO 868	
Electrical conductivity	> 10 ¹² Ωcm (test specimen: 120 x 120 x 10 mm; voltage: 100 V)						ASTM D991-89	



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Thermal conductivity	$\leq 0,05$ 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
Form of delivery	<p>Block size with production skin minimum 2,000 (78.74) x 1,000 (39.37) x 50 (1.97) mm (in), Both side 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 5 mm is required. The Determination of linear dimensions as per DIN EN ISO 1923 Standard .</p>	
Resistances	<p>Oil = medium Ozone = very good 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>	

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.

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