



Material Data Sheet: RKFT-EPDM-OM® Black

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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		&	Regulation (EG) Nr. 1907/2006 (REACH)			&	Conflict Mineral Reporting Template	
Material Base	Ethylene–Propylene Diene–Monomer							ISO 1629	
Density	100 (±20) kg/m³							ISO 845	
General Description	Semi closed cell, Soft-elastic cellular rubber							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	



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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	Block size with production skin minimum 2,000 (78.74) x 1,000 (39.37) x 50 (1.97) mm (in), Without skin. The material can be further processed by splitting, cutting, sawing, punching, gluing, milling, grinding and coating with adhesives. To split a stable sheet, a minimum thickness of 3 mm is required. Determination of linear dimensions as per DIN EN ISO 1923 Standard .	
Resistances	Oil = medium Ozone = very good Air + UV = very good Detailed information can only be obtained after formal testing in individual cases.	
Remarks	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.	
Suggestions for disposal	It does not contain hazardous compounds such as cadmium, lead, CFCs, formaldehyde, etc. which require compliance to waste disposal regulations from 27/04/2009. Under the observance of local waste disposal regulations, it may therefore be disposed of as household waste on landfills or domestic waste incineration plants.	

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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