Alcryn® 2180 BK

Melt Processable Rubber

Advanced Polymer Alloys

Message:

Alcryn®2180 BK is a melt processable rubber (MPR) material. This product is available in North America, Europe or Asia Pacific.
Alcryn®The main features of 2180 BK are:
Comply with WEEE standard
ROHS certification
high liquidity
Good tear strength
chemical resistance
Typical application areas include:
Wire and cable
Automotive Industry
Hose
engineering/industrial accessories
Sealing applications

General Information			
Features	High Friction Good tear strength Good wear resistance High liquidity Good chemical resistance		
Uses	Handle Cable sheath Wire sheath Washer Pipe Pipe fittings Seals Weather-resistant sealing strip Car interior parts		
Agency Ratings	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.30	g/cm³	ASTM D792, ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 1.90 mm, Compression Molded)	78		ASTM D2240, ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
100% strain	4.10	MPa	ASTM D412
100% strain, 1.90mm	4.10	MPa	ISO 37
Tensile Strength (Break, 1.90 mm)	12.5	MPa	ASTM D412, ISO 37
Tensile Elongation			
Fracture	550	%	ASTM D412
Fracture, 1.90mm	550	%	ISO 37
Tear Strength [1] (24°C)	61.0	kN/m	ASTM D624
Compression Set			ASTM D395, ISO 815
24°C, 22 hr	22	%	ASTM D395, ISO 815
100°C, 22 hr	88	%	ASTM D395, ISO 815

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-50.0	°C	ASTM D746, ISO 812

Additional Information
The value listed as Specific Gravity, ASTM D792, was tested in accordance with ASTM D471.The value listed as Density, ISO 1183, was tested in accordance with ISO 2781.The value listed as Shore Hardness, ISO 868, was tested in accordance with ISO 48.Permanent Set (Tension), ASTM D412, Compression Molding, 1.9 mm: 17%100% Modulus, ASTM D412, ISO 37, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 148%Tensile Strength, ASTM D412, ISO 37, DIN 53504, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 112%Elongation At Break, ASTM D412, ISO 37, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 1106%Hardness, ISO 48, Physical Retention After 7 Days at 125°C, Shore A, Compression Molding, 1.9 mm: 77Viscosity, ASTM D3835, 300 s-1 at 190°C, Compression Molding, 1.9 mm: 430 Pa*sTypical Processing Temperature, Compression Molding, 1.9 mm: 177° CVolume Change, ASTM D471, ISO 1817, After 7 days, 100°C, Water, Compression Molding, 1.9 mm: 12%Volume Change, After 7 days,ASTM D471, ISO 1817, 24°C, Fuel B, Compression Molding, 1.9 mm: 26%Volume Change, After 7 days, ASTM D471, ISO 1817, 100°C, ASTM #1 Oil, Compression Molding, 1.9 mm: -6%Volume Change, After 7 days, ASTM D471, ISO 1817, 100°C, IRM 903 Oil #3, Compression Molding, 1.9 mm: 16%Clash-Berg Stiffness Temperature, ASTM D1043, 10000 psi, Compression Molding, 1.9 mm: -19° C

NOTE	
1.	C mould

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

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