

Alcryn® 2180 NC

Melt Processable Rubber

Advanced Polymer Alloys

Message:

Alcryn® 2180 NC is a melt processable rubber (MPR) material. This product is available in North America, Europe or Asia Pacific.

Alcryn®The main features of 2180 NC are:

Comply with WEEE standard

ROHS certification

high liquidity

Good tear strength

chemical resistance

Typical application areas include:

Wire and cable

Hose

Sealing applications

Automotive Industry

Handle

General Information			
Features	High Friction		
	Good tear strength		
	Good wear resistance		
	High liquidity		
	Good chemical resistance		
Uses	Handle		
	Cable sheath		
	Wire sheath		
	Pipe		
	Pipe fittings		
	Seals		
	Weather-resistant sealing strip		
	Car interior parts		
	Assembled glass		
Agency Ratings	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792, ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1.90 mm, Compression Molded)	79		ASTM D2240, ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
100% strain	4.50	MPa	ASTM D412
100% strain, 1.90mm	4.50	MPa	ISO 37
Tensile Strength (Break, 1.90 mm)	12.3	MPa	ASTM D412, ISO 37
Tensile Elongation			
Fracture	560	%	ASTM D412
Fracture, 1.90mm	560	%	ISO 37
Tear Strength ¹ (24°C)	67.0	kN/m	ASTM D624
Compression Set			ASTM D395, ISO 815
24°C, 22 hr	22	%	ASTM D395, ISO 815
100°C, 22 hr	89	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-58.0	°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: 122% Tensile Strength, ASTM D412, ISO 37, DIN 53504, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 117% Elongation At Break, ASTM D412, ISO 37, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 107% Hardness, ISO 48, Physical Retention After 7 Days at 125°C, Shore A, Compression Molding, 1.9 mm: 74 Viscosity, ASTM D3835, 300 s-1 at 190°C, Compression Molding, 1.9 mm: 455 Pa*s Typical Processing Temperature, Compression Molding, 1.9 mm: 177° C Volume Change, ASTM D471, ISO 1817, After 7 days, 100°C, Water, Compression Molding, 1.9 mm: 14% Volume Change, After 7 days, ASTM D471, ISO 1817, 24°C, Fuel B, Compression Molding, 1.9 mm: 24% Volume Change, After 7 days, ASTM D471, ISO 1817, 100°C, ASTM #1 Oil, Compression Molding, 1.9 mm: -7% Volume Change, After 7 days, ASTM D471, ISO 1817, 100°C, IRM 903 Oil #3, Compression Molding, 1.9 mm: 13% Clash-Berg Stiffness Temperature, ASTM D1043, 10000 psi, Compression Molding, 1.9 mm: -22° C

NOTE

1. C mould

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