

Advanced Polymer Alloys Alcryn® 4680 BK Melt Processable Rubber

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

Alcryn melt-processable rubber (MPR) is a true rubber, based on a partially cross-linked, chlorinated olefin interpolymer alloy. Alcryn is designed for the manufacture of rubber parts with high productivity on thermoplastic processing equipment. Applications: Window and door weatherstripping (and other complex profile extrusions) Soft handles and grips Molded seals and gaskets Injection-molded and co-injection molded parts Blow-molded parts Tubing and hose Wire and cable jackets Coated fabrics and sheet goods Information provided by Advanced Polymer Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Polymer-Alloys-Alcryn-4680-BK-Melt-Processable-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D471; ISO 2781
Viscosity	780000 cP	780000 cP	ASTM D3835
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	76	76	After 7 days at 257°F (125°C); ASTM D573; ISO 188
	79	79	ASTM D2240; ISO 48
Tensile Strength, Ultimate	10.8 MPa	1570 psi	ASTM D412; ISO 37
	11.0 MPa	1600 psi	After 7 days at 257°F (125°C); ASTM D573; ISO 188
Elongation at Break	380 %	380 %	ASTM D412; ISO 37
	380 %	380 %	After 7 days at 257°F (125°C); ASTM D573; ISO 188
100% Modulus	0.00593 GPa	0.860 ksi	ASTM D412; ISO 37
	0.00758 GPa	1.10 ksi	After 7 days at 257°F (125°C); ASTM D573; ISO 188
Graves Tear Strength	52.6 kN/m	300 pli	Die C; ASTM D624
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Taber Abrasion, mg/1000 Cycles	6.0	6.0	Cs-17 Wheel, 1000 g Load; ASTM D3389
Compression Set	24 %	24 %	After 22 Hr at 75°F (24°C); ASTM D395; ISO 815
	75 %	75 %	

Mechanical Properties	Metric @ Temperature 100 °C	English @ Temperature 212 °F	22 hrs - ASTM D395; ISO 815 Comments
Tensile Set	12 %	12 %	ASTM D412
Torsional Stiffness	4.134 MPa	599.6 psi	At 75°F (24°C); ASTM D1043
	68.9 MPa	9990 psi	At -4°F (-20°C); ASTM D1043

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-59.4 °C	-75.0 °F	ASTM D746; ISO 812
Clash Berg Stiffness Temperature	1.11 °C	34.0 °F	At 10,000 psi (69 Mpa); ASTM D1043

Processing Properties	Metric	English	Comments
Processing Temperature	166 °C	330 °F	

Descriptive Properties	Value	Comments
Fluid Resistance - Volume Change, % (ASTM D471)	10	After 7 Days in Water at 212°F (100°C)
	22	After 7 Days in ASTM Ref. Fuel No. B at 75°F (24°C)
	24	After 7 Days in IRM 903 Oil No.3 at 212°F (100°C)
	-9	After 7 Days in ASTM Oil No.1 at 212°F (100°C)

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