

Advanced Polymer Alloys Alcryn® 2090 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-2090-BK-Melt-Processable-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D471; ISO 2781
Viscosity	550000 cP	550000 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	88	88	ASTM D2240; ISO 48
Tensile Strength, Ultimate	0.255 MPa	37.0 psi	After 7 days at 257°F (125°C); ASTM D573; ISO 188
	10.8 MPa	1570 psi	ASTM D412; ISO 37
Elongation at Break	320 %	320 %	ASTM D412; ISO 37
100% Modulus	0.000490 GPa	0.0710 ksi	After 7 days at 257°F (125°C); ASTM D573; ISO 188
	0.00641 GPa	0.930 ksi	ASTM D412; ISO 37
Graves Tear Strength	44.7 kN/m	255 pli	Die C; ASTM D624
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compression Set	27 %	27 %	After 22 Hr at 75°F (24°C); ASTM D395; ISO 815
	74 %	74 %	22 hrs.; ASTM D395; ISO 815
	@Temperature 100 °C	@Temperature 212 °F	
Tensile Set	13 %	13 %	ASTM D412

Thermal Properties	Metric	English	Comments
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Cash Berg Stiffness Temperature Thermal Properties	-20.6 °C Metric	-5.00 °F English	At 10,000 psi (69 Mpa); ASTM D1043 Comments
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Processing Properties	Metric	English	Comments
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Processing Temperature	177 °C	350 °F	
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Descriptive Properties	Value	Comments
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Fluid Resistance - Volume Change, % (ASTM D471)	-10	After 7 Days in ASTM Oil No.1 at 212°F (100°C)
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	-23	After 7 Days in IRM 903 Oil No.3 at 212°F (100°C)
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	36	After 7 Days in ASTM Ref. Fuel No. B at 75°F (24°C)
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