

Advanced Polymer Alloys Alcryn® 2180 BK Melt Processable Rubber

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Alcryn 2100 Series melt-processable rubber (MPR) offer a broader range of bonding to rigid substrates while maintaining all the excellent performance features of traditional Alcryn. The 2100 grades bond to polycarbonate, ABS, polycarbonate/ABS alloys, SAN, ASA, copolyester elastomers and TPUs, as well as both flexible and rigid PVC. Applications: Injection-molded and overmolded parts Soft touch handles and grips Automotive interior applications Seals and gaskets for automotive insert molding Noise and vibration deadening Blow-molded parts Tubing and hose Wire and cable jackets Coated fabrics and sheet goods Window and door weatherstripping Information provided by Advanced Polymer Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Polymer-Alloys-Alcryn-2180-BK-Melt-Processable-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D471
Viscosity	430000 cP	430000 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	77	77	After 7 days at 125°C; ASTM D573
	78	78	ASTM D2240
Tensile Strength at Break	12.50 MPa	1813 psi	ASTM D412
	14.00 MPa	2031 psi	After 7 days at 125°C; ASTM D573
Elongation at Break	550 %	550 %	ASTM D412
	583 %	583 %	After 7 days at 125°C; ASTM D573
100% Modulus	0.00410 GPa	0.595 ksi	ASTM D412
	0.006072 GPa	0.8806 ksi	After 7 days at 125°C; ASTM D573
Graves Tear Strength	61.02 kN/m	348.1 pli	Die C; ASTM D624
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compression Set	22 %	22 %	After 22 Hr At 24°C; ASTM D395
	88 %	88 %	After 22 Hr at 100°C; ASTM D395
Tensile Set	17 %	17 %	ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-50.0 °C	-58.0 °F	ASTM D746
Clash Berg Stiffness Temperature	-19.0 °C	-2.20 °F	69 Mpa; ASTM D1043

Processing Properties	Metric	English	Comments
Processing Temperature	177 °C	351 °F	

Descriptive Properties	Value	Comments
Fluid Resistance - Volume Change, % (ASTM D471)	12	After 7 Days in Water at 212°F (100°C)
	16	After 7 Days in IRM 903 Oil No. 3 at 212°F (100°C)
	26	After 7 Days in ASTM Ref. Fuel no. B at 75°F (24°C)
	-6	After 7 Days in ASTM Oil No. 1 At 212°F (100°C)

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