

Advanced Polymer Alloys Alcryn® 2160 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-2160-BK-Melt-Processable-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D471
Viscosity	265000 cP @Shear Rate 300 1/s, Temperature 190 °C	265000 cP @Shear Rate 300 1/s, Temperature 374 °F	ASTM D3835

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	After 7 days at 125°C; ASTM D573
	59	59	ASTM D2240
Tensile Strength at Break	11.1 MPa	1610 psi	ASTM D412
	13.432 MPa	1948.1 psi	After 7 days at 125°C; ASTM D573
Elongation at Break	620 %	620 %	ASTM D412
	638.6 %	638.6 %	After 7 days at 125°C; ASTM D573
100% Modulus	0.00230 GPa	0.333 ksi	ASTM D412
	0.0031225 GPa	0.45288 ksi	After 7 days at 125°C; ASTM D573
Graves Tear Strength	55.01 kN/m @Temperature 24.0 °C	313.8 pli @Temperature 75.2 °F	Die C; ASTM D624
Compression Set	18 %	18 %	After 22 Hr At 24°C; ASTM D395
	86 %	86 %	After 22 Hr at 100°C; ASTM D395
Tensile Set	14 %	14 %	ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-68.0 °C	-90.4 °F	ASTM D746
Clash Berg Stiffness Temperature	-49.0 °C	-56.2 °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)	16	After 7 Days in ASTM Ref. Fuel no. B at 75°F (24°C)
	-22	After 7 Days in ASTM Oil No. 1 At 212°F (100°C)
	4	After 7 Days in IRM 903 Oil No. 3 at 212°F (100°C)
	6	After 7 Days in Water at 212°F (100°C)

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