

Advanced Polymer Alloys Alcryn® 2165 TR Melt Processable Rubber

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

The 2100 Series grades of Alcryn® offer a broader range of bonding to rigid substrates while maintaining all the excellent performance features of traditional Alcryn®. The new 2100 grades bond to polycarbonate, ABS, polycarbonate/ABS alloys, SAN, ASA, copolyester elastomers and TPUs, as well as both flexible and rigid PVC. The 2100 series is high flow in general plastic processing designed for injection molding and overmolding is excellent for complex extrusions is excellent for co-extrusions injection molded and overmolded parts soft touch handles and grips on appliance and tool applications automotive interior applications noise and vibration deadening seals and gaskets for automotive insert molding window and door weather stripping (and other complex profile extrusions) coated fabrics and sheet good wire and cable jacket tubing and hose blow molded parts Information provided by Advanced Polymer Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Polymer-Alloys-Alcryn-2165-TR-Melt-Processable-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D471
Viscosity	232000 cP	232000 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	60	60	After 7 days at 125°C; ASTM D573
	66	66	ASTM D2240
Tensile Strength at Break	11.71 MPa	1698 psi	After 7 days at 125°C; ASTM D573
	12.20 MPa	1769 psi	ASTM D412
Elongation at Break	518.7 %	518.7 %	After 7 days at 125°C; ASTM D573
	570 %	570 %	ASTM D412
100% Modulus	0.00310 GPa	0.450 ksi	ASTM D412
	0.003382 GPa	0.4905 ksi	After 7 days at 125°C; ASTM D573
Graves Tear Strength	46.02 kN/m	262.5 pli	Die C; ASTM D624
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compression Set	34 %	34 %	After 22 Hr At 24°C; ASTM D395
	83 %	83 %	After 22 Hr at 100°C; ASTM D395
Tensile Set	13 %	13 %	ASTM D412

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 Oil No. 1 At 212°F (100°C)
	19	After 7 Days in ASTM Ref. Fuel no. B at 75°F (24°C)
	7	After 7 Days in Water at 212°F (100°C)
	9	After 7 Days in IRM 903 Oil No. 3 at 212°F (100°C)

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