

Advanced Polymer Alloys DuraGrip™ 6140 TR Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

DuraGrip® DGR6140TR is a translucent thermoplastic elastomer formulated for excellent elastic properties and enhanced adhesion to various engineered thermoplastics using insert molding, co-injection molding and co-extrusion processes. 6140TR bonds tenaciously to polycarbonate, polycarbonate alloys, ABS, ASA, acrylics, and cellulosic materials. It will also bond to various nylons and PET. DuraGrip 6140TR is hygroscopic and drying is recommended at 150F for 3 to 4 hours to ensure optimum aesthetics, properties and adhesion. Information provided by Advanced Polymer Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Polymer-Alloys-DuraGrip-6140-TR-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.994 g/cc	0.994 g/cc	ASTM D471
Viscosity	266000 cP	266000 cP	ASTM D3835
	@Shear Rate 294 1/s, Temperature 190 °C	@Shear Rate 294 1/s, Temperature 374 °F	
Melt Index of Compound	12.5 g/10 min	12.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	43	43	5 Sec; ASTM D2240
Tensile Strength at Break	7.894 MPa	1145 psi	ASTM D412
Elongation at Break	647 %	647 %	ASTM D412
100% Modulus	0.00123 GPa	0.178 ksi	ASTM D412
300% Modulus	0.00250 GPa	0.362 ksi	ASTM D412
Graves Tear Strength	23.7 kN/m	135 pli	Die C; ASTM D624
	@Temperature 24.0 °C	@Temperature 75.2 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 230 °C	356 - 446 °F	

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