

Advanced Polymer Alloys DuraGrip™ 6165 TR Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

DuraGrip® DGR6165TR is a translucent thermoplastic elastomer (TPE) formulated for excellent elastic properties and enhanced adhesion to engineered thermoplastics using insert molding, co-injection molding and co-extrusion processes. DGR6165TR bonds tenaciously to polycarbonate, polycarbonate alloys, ABS, ASA, acrylics, and cellulosic materials. It will also bond to various nylons and PET. DGR6165TR 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-6165-TR-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D471
Viscosity	427000 cP	427000 cP	ASTM D3835
	@Shear Rate 294 1/s, Temperature 190 °C	@Shear Rate 294 1/s, Temperature 374 °F	
Melt Index of Compound	11 g/10 min	11 g/10 min	ASTM D1238
	@Load 8.70 kg, Temperature 190 °C	@Load 19.2 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	10 Sec; ASTM D2240
Tensile Strength at Break	18.11 MPa	2627 psi	Parallel Flow; ASTM D412
	25.88 MPa	3754 psi	Perpendicular Flow; ASTM D412
Elongation at Break	583 %	583 %	Parallel Flow; ASTM D412
	810 %	810 %	Perpendicular Flow; ASTM D573
100% Modulus	0.00343 GPa	0.498 ksi	Parallel Flow; ASTM D412
	0.00396 GPa	0.575 ksi	Perpendicular Flow; ASTM D412
300% Modulus	0.007729 GPa	1.121 ksi	Parallel Flow; ASTM D412
	0.009225 GPa	1.338 ksi	Perpendicular Flow; ASTM D412
Graves Tear Strength	52.2 kN/m	298 pli	Die C, parallel flow; ASTM D624
	59.6 kN/m	340 pli	Die C, perpendicular flow; ASTM D624

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

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