

Advanced Polymer Alloys DuraGrip™ 6150 BK Melt Processable Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO)

Material Notes:

DuraGrip™ 6150BK is designed to be a special purpose Melt Processable Elastomer (MPE) that is easy to use in injection molding and extrusion processes. DGR 6150BK has an excellent soft touch feel and will Bond to Nylon, ABS, PC, PC/ABS. DuraGrip™ 6100 series is hygroscopic and requires drying prior to use. Information provided by Advanced Polymer Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Polymer-Alloys-DuraGrip-6150-BK-Melt-Processable-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D471; ISO 2781
Viscosity	327000 cP	327000 cP	ASTM D3835
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Linear Mold Shrinkage	0.019 cm/cm	0.019 in/in	
	0.021 cm/cm	0.021 in/in	
Linear Mold Shrinkage, Transverse	0.00 cm/cm	0.00 in/in	
	0.0040 cm/cm	0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	52	52	Time of 5 seconds; ASTM D2240; ISO 48
Tensile Strength, Ultimate	5.86 MPa	850 psi	ASTM D412; ISO 37
	6.857 MPa	994.5 psi	After 7 days at 70°C; ASTM D412 ISO 37
	8.6150 MPa	1249.5 psi	After 7 days at 100°C; ASTM D412 ISO 37
Elongation at Break	360 %	360 %	ASTM D412; ISO 37
	381.6 %	381.6 %	After 7 days at 70°C; ASTM D412 ISO 37
	417.6 %	417.6 %	After 7 days at 100°C; ASTM D412 ISO 37
Modulus of Elasticity	0.00170 GPa	0.247 ksi	After 7 days at 100°C; ASTM D412 ISO 37
	0.00181 GPa	0.263 ksi	After 7 days at 70°C; ASTM D412 ISO 37
100% Modulus	0.00179 GPa	0.260 ksi	ASTM D412; ISO 37

Mechanical Properties	Metric	English	Comments
Graves Tear Strength	25.0 kN/m	145 psi	Die C; ASTM D624
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Taber Abrasion, mg/1000 Cycles	144	144	Cs-17 Wheel, 1000 g Load; ASTM D3389
Compression Set	19 %	19 %	After 22 Hr at 75°F (24°C); ASTM D395; ISO 815
	76 %	76 %	22 hrs.; ASTM D395; ISO 815
	@Temperature 70.0 °C	@Temperature 158 °F	
	87 %	87 %	22 hrs.; ASTM D395; ISO 815
	@Temperature 100 °C	@Temperature 212 °F	
Tensile Set	3.4 %	3.4 %	100% Tension; ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-67.8 °C	-90.0 °F	ASTM D746; ISO 812

Processing Properties	Metric	English	Comments
Processing Temperature	227 °C	440 °F	
Rear Barrel Temperature	204 - 221 °C	400 - 430 °F	
Middle Barrel Temperature	216 - 227 °C	420 - 440 °F	
Front Barrel Temperature	227 - 238 °C	440 - 460 °F	
Nozzle Temperature	227 - 249 °C	440 - 480 °F	
Melt Temperature	227 - 254 °C	440 - 490 °F	
Mold Temperature	43.3 - 54.4 °C	110 - 130 °F	
Injection Pressure	1.03 - 3.45 MPa	150 - 500 psi	
Cycle Time - Injection	0.50 - 2.0 sec	0.50 - 2.0 sec	boost
Screw Speed	25 - 100 rpm	25 - 100 rpm	
Cure Time	0.167 - 0.333 min	0.00278 - 0.00556 hour	Cooling Time

Descriptive Properties	Value	Comments
Fluid Resistance - Volume Change, % (ASTM D471)	1	After 7 Days in Water at 212°F (100°C)
	16	After 7 Days in ASTM Oil No.1 at 212°F (100°C)

Descriptive Properties	47	After 7 Days in ASTM Ref. Fuel No. B at 75°F (24°C)
	Value	Comments
	95	After 7 Days in IRM 903 Oil No.3 at 212°F (100°C)

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