

DuraGrip® DGR 6140TR

Thermoplastic Elastomer

Advanced Polymer Alloys

Message:

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.

General Information			
Features	Bondability		
	Good Adhesion		
	High Elongation		
Uses	Bonding		
Appearance	Translucent		
Processing Method	Coextrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.994	g/cm ³	ASTM D471, ISO 2781
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	13	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	43		ASTM D2240, ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 37
100% Strain	1.23	MPa	
300% Strain	2.50	MPa	
Tensile Strength (Break)	7.90	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	650	%	ASTM D412, ISO 37
Tear Strength ¹	23.6	kN/m	ASTM D624

Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (190°C, 294 sec ⁻¹)	266	Pa · s	ASTM D3835

Injection	Nominal Value	Unit	
Drying Temperature	65.6	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	180 to 230	°C	

NOTE			
1.	Die C		

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Recommended distributors for this material

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