

Technical Data Sheet

DuraGrip® DGR 6165TR

Thermoplastic Elastomer
Engineering Plastics



Product Description

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.

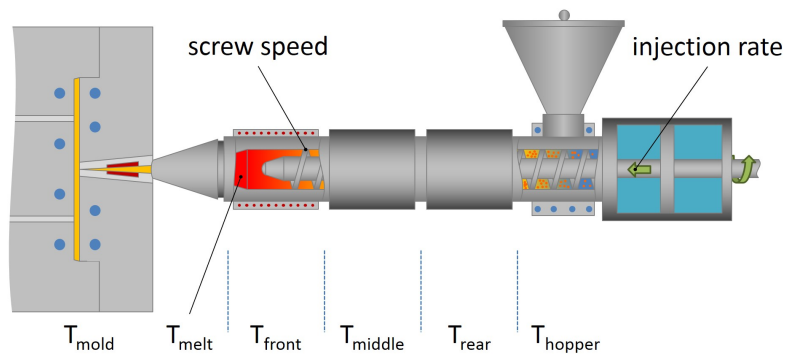
General

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.04	1.04 g/cm³	ASTM D471
--	1.04 g/cm³	1.04 g/cm³	ISO 2781
Melt Mass-Flow Rate (MFR) (190°C/8.7 kg)	11 g/10 min	11 g/10 min	ASTM D1238
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			ASTM D412 ISO 37
Across Flow : 100% Strain	576 psi	3.97 MPa	
Flow : 100% Strain	497 psi	3.43 MPa	
Across Flow : 300% Strain	1340 psi	9.23 MPa	
Flow : 300% Strain	1120 psi	7.73 MPa	
Tensile Strength			ASTM D412 ISO 37
Across Flow : Break	3760 psi	25.9 MPa	
Flow : Break	2630 psi	18.1 MPa	
Tensile Elongation			ASTM D412 ISO 37
Across Flow : Break	810 %	810 %	
Flow : Break	580 %	580 %	
Tear Strength ¹			ASTM D624
Across Flow	340 lbf/in	59.5 kN/m	
Flow	298 lbf/in	52.2 kN/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A, 10 sec)	65	65	ASTM D2240 ISO 48
Fill Analysis	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Viscosity (374°F (190°C), 294 sec ⁻¹)	427 Pa·s	427 Pa·s	ASTM D3835

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	150 °F	66 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	356 to 446 °F	180 to 230 °C