

SLOVALEN® PH 49 GF 50

Polypropylene

Plastcom

Message:

Modified homopolymer PP for injection moulding, chemically reinforced with 50% glass fibre, contains the modifier of mechanical properties. Increased strength in comparison with unfilled PP. Applied in all industry branches. Increased strength, toughness, modulus in tension due to the modification. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Chemically Coupled		
	General Purpose		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	Homopolymer		
Uses	General Purpose		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.54	%	
Flow	0.62	%	
Water Content	0.20	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9200	MPa	ISO 527-2
Tensile Stress (Yield)	105	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	8750	MPa	ISO 178
Flexural Stress	155	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	11	kJ/m ²	
23°C	15	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179
-20°C	59	kJ/m ²	
23°C	68	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	160	°C	ISO 75-2/B
Vicat Softening Temperature	155	°C	ISO 306/B
Melting Temperature (DSC)	160	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	220 to 270	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	70.0 to 120	MPa	

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