

SLOVALEN® PH 49 GF 40

Polypropylene

Plastcom

Message:

PP homopolymer for injection moulding, chemically strengthened with 40% of glass fibre, for mouldings with high strength and toughness used in the automotive, electrical, engineering and consumer-goods industry.Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Chemically Coupled		
	High Strength		
	Ultra High Toughness		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Engineering Parts		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.7	%	
Flow	1.9	%	
Water Content	0.20	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress (Yield)	100	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	6500	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	7.0	kJ/m²	

23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179	
-20°C	45	kJ/m ²	
23°C	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	160	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Pressure	70.0 to 120	MPa	

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