

SLOVALEN® PH 49 GF 30 LW

Polypropylene

Plastcom

Message:

Modified homopolymer PP for injection moulding, chemically reinforced with 30% glass fibre, contains the modifier of mechanical properties and contains modifactor for laser labeling of finisch parts. /LASER NdIAG - 1064 nm/. Increased strength in comparison with unfilled PP. Applied in all industry branches. Increased strength, toughness, modulus in tension due to the modification. Delivered in black mode.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Chemically Coupled		
	General Purpose		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	Homopolymer		
	Laser Markable		
Uses	General Purpose		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.05	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	0.51	%	
Flow	0.48	%	
Water Content	< 0.20	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6850	MPa	ISO 527-2
Tensile Stress (Yield)	95.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	5500	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	11	kJ/m ²	
23°C	13	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179

-20°C	52	kJ/m ²	
23°C	55	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
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	200 to 250	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	70.0 to 120	MPa	

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