

# SLOVALEN® PH 49 GF 20

Polypropylene

Plastcom

## Message:

Modified homopolymer PP for injection moulding, chemically reinforced with 20% 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. Moderately increased toughness and lower ITT in comparison with PH 69 GF 30.

General Information			
Filler / Reinforcement	Glass Fiber, 20% Filler by Weight		
Features	Chemically Coupled		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	Homopolymer		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.9	%	
Flow	1.8	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4700	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	2.0	kJ/m <sup>2</sup>	
23°C	13	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-20°C	36	kJ/m <sup>2</sup>	
23°C	40	kJ/m <sup>2</sup>	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	130	°C	ISO 75-2/B
Vicat Softening Temperature	135	°C	ISO 306/B
Melting Temperature (DSC)	160	°C	ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 250	°C	
Mold Temperature	40.0 to 70.0	°C	
Injection Pressure	70.0 to 120	MPa	

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