

# SLOVALEN® PH 91 GF 15

Polypropylene

Plastcom

Message:

Modified homopolymer PP for injection moulding, chemically reinforced with 15% glass fibre, with high strength, rigidity and toughness, adapted thermal properties, decreased shrinkage. Suitable for automotive, engineering, electrical and consumer goods industry. With the increasing content of GF also the toughness, tensile and bending strength, modulus in tension and bending increase and the shrinkage decreases as well as the heat application increases up to 150°C. Additional drying of the material is not necessary. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Chemically Coupled		
	High Rigidity		
	High Strength		
	Homopolymer		
	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	1.04	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	2.0	%	
Flow	1.9	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress (Yield)	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179
-20°C	1.0	kJ/m <sup>2</sup>	
23°C	14	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-20°C	20	kJ/m <sup>2</sup>	
23°C	50	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	110	°C	ISO 75-2/B
Vicat Softening Temperature	130	°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 60.0	°C	
Injection Pressure	70.0 to 120	MPa	

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#### Recommended distributors for this material

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