# SLOVALEN® PH 41 GF 10

#### Polypropylene

#### Plastcom

#### Message:

Modified homopolymer PP for injection moulding, chemically reinforced with 10% 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,10% Filler by Weigh	nt	
Features	Chemically Coupled		
	High Rigidity		
	High Strength		
	Homopolymer		
	Ultra High Toughness		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Application	าร	
	Engineering Parts		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.03	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	1.9	%	
Flow	2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress	55.0	MPa	ISO 178
Impact	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				
23°C       15       kJ/m²         Charpy Unnotched Impact Strength       ISO 179         -20°C       25       kJ/m²         23°C       48       kJ/m²         Thermal       Nominal Value       Unit       Test Metho         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	Charpy Notched Impact Strength			ISO 179
Charpy Unnotched Impact Strength  -20°C  25  kJ/m²  23°C  48  kJ/m²  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	-20°C	1.0	kJ/m²	
-20°C 23°C 48 kJ/m²  Thermal Nominal Value Unit Test Methor 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	23°C	15	kJ/m²	
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-	Injection	Nominal Value	Unit	
Mald Tarran and the CO O	Processing (Melt) Temp	200 to 250	°C	
Mola remperature 40.0 to 60.0 °C	Mold Temperature	40.0 to 60.0	°C	
Injection Pressure 70.0 to 120 MPa	Injection Pressure	70.0 to 120	MPa	

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