SLOVALEN® PH 59 GF 30

Polypropylene

Plastcom

Message:

Modified homopolymer PP for injection moulding, chemically reinforced with 30% 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. Production of the fuel tank caps for the transport vehicles, shells for the textile industry.

General Information			
Filler / Reinforcement	Glass Fiber,30% 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	1.13	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.82	%	
Flow	0.72	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5650	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Tensile Strain (Yield)	30	%	ISO 527-2
Flexural Modulus	4890	MPa	ISO 178
Flexural Stress	128	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength			ISO 179
-20°C	9.0	kJ/m²	
23°C	11	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	45	kJ/m²	
23°C	50	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	134	°C	ISO 75-2/B
Vicat Softening Temperature	162	°C	ISO 306/B
Melting Temperature (DSC)	160	°C	ISO 3146
Flammability	**Nominal Value**		**Test Method**
Flame Rating	HB		UL 94
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	

Recommended distributors for this material

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