SLOVALEN® PC 51 GF 10

Polypropylene

Plastcom

Message:

Modified copolymer 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 Weight		
Features	Chemically Coupled Copolymer High Rigidity High Strength 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	1.03	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**

Charpy Notched Impact Strength			ISO 179
-20°C	1.0	kJ/m²	
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 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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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