

SLOVALEN® PH 51 C 40

Polypropylene

Plastcom

Message:

Modified homopolymer and copolymer PP for injection moulding with the content of 40% microground, chemically modified talc. Increased strength, rigidity and thermal application up to 100°C depending on the talc content. Decreased shrinkage. Packing material, garden flower-pots, toys, dowels, clamps, hinge, office chairs, holders, covers of motors, chassis, protection trims in the automotive industry, electroinstallation boxes in the electrical industry. Fulfills the glow wire 750°C. Delivered in the full RAL colour scale.

General Information			
Filler / Reinforcement	Talc,40% Filler by Weight		
Features	Copolymer		
	Good Strength		
	Homopolymer		
	Medium Rigidity		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Living Hinges		
	Packaging		
	Toys		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	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	1.2	%	
Flow	1.3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	35.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179
-20°C	1.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	12	kJ/m ²	
23°C	32	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	110	°C	ISO 75-2/B
Vicat Softening Temperature	155	°C	ISO 306/B
Melting Temperature (DSC)	150	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	750	°C	IEC 60695-2-13
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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