

SLOVALEN® PC 51 T 25

Polypropylene

Plastcom

Message:

Modified copolymer PP for injection moulding with the content of 25% microground, floated, chemically modified talc. General application - packing material, garden flower-pots, toys, furniture industry, clamps, dowels, hinge, holders, office chairs, covers of chassis, motors, fenders. Increased toughness. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Talc,25% Filler by Weight		
Features	Copolymer		
	Good Toughness		
Uses	Furniture		
	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	1.12	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	1.8	%	
Flow	1.8	%	
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)	5.0	%	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	2.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179

-20°C	18	kJ/m ²	
23°C	60	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	120	°C	ISO 75-2/B
Vicat Softening Temperature	85.0	°C	ISO 306/B
Melting Temperature (DSC)	150	°C	ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 250	°C	
Mold Temperature	40.0 to 50.0	°C	
Injection Pressure	70.0 to 120	MPa	

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