

SLOVALEN® PQ 81 T 10

Polypropylene

Plastcom

Message:

Modified PP for injection moulding with the content of 10% mineral filling. Increased rigidity, strength and thermal use up to 130°C depending on the talc content. Decreased shrinkage. General application in all industry branches - packing material, garden flower-pots, toys, furniture industry, dowels, clamps, hinge, office chairs, hangers, covers of car chassis, fenders, motors etc.

General Information			
Filler / Reinforcement	Talc,10% Filler by Weight		
Features	General Purpose		
	Good Strength		
	Low Shrinkage		
	Medium Heat Resistance		
	Medium Rigidity		
Uses	Furniture		
	General Purpose		
	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	0.940	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.2	%	
Flow	1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2
Tensile Stress (Yield)	15.0	MPa	ISO 527-2
Tensile Strain (Yield)	9.0	%	ISO 527-2
Flexural Modulus	950	MPa	ISO 178
Flexural Stress	18.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179
-20°C	5.0	kJ/m ²	
23°C	43	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	72.0	°C	ISO 75-2/B
Vicat Softening Temperature	130	°C	ISO 306/B
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
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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