

SLOVALEN® PQ 51 N

Polypropylene

Plastcom

Message:

Homopolymer PP modified with natural caoutchouc. The addition of thermoplastic caoutchouc causes increased toughness, possible alternative to PP copolymers. General application in all industry branches - packing material, garden flower-pots, toys, furniture industry, fasteners, clamps, hinge, office chairs, hangers etc. Delivered in natural mode and in the full RAL colour scale.

General Information			
Additive	Impact Modifier		
Features	Copolymer		
	General Purpose		
	Good Toughness		
	Homopolymer		
	Impact Modified		
Uses	Automotive Applications		
	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	0.880	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	1100	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain (Yield)	200	%	ISO 527-2
Flexural Modulus	900	MPa	ISO 178
Flexural Stress	25.0	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	50	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	65.0	°C	ISO 75-2/B
Vicat Softening Temperature	125	°C	ISO 306/B
Melting Temperature (DSC)	140	°C	ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 250	°C	
Mold Temperature	30.0 to 50.0	°C	
Injection Pressure	60.0 to 70.0	MPa	

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