

SLOVALEN® PH 76 T 20 FRD 5

Polypropylene

Plastcom

Message:

Modified homopolymer PP for injection moulding, with the content of 20% microground chemically modified talc, retarded with halogen flame retardant. Application - electrical industry - terminals, coil forms, covers of electrotools, guides. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogenated		
	Homopolymer		
Uses	Electrical/Electronic Applications		
	Power/Other Tools		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.1	%	
Flow	0.90	%	
Water Content	0.10	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress	40.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	1.0	kJ/m ²	
23°C	1.2	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179

-20°C	7.0	kJ/m ²	
23°C	15	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	70.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/B
Melting Temperature (DSC)	136	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	24	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Ignition Temperature (3.00 mm)	960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	180 to 230	°C	
Mold Temperature	30.0 to 40.0	°C	
Injection Pressure	70.0 to 90.0	MPa	

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