

SLOVALEN® PC 78 FRD 3

Polypropylene

Plastcom

Message:

Determined for environment, where contact with water is possible, because the electric properties do not change by conditioning. Application - terminals, coil forms, guides in washing machines, tea-pots, dish-washers. Delivered in natural mode and in the full RAL colour scale. Modified copolymer PP, retarded with halogen flame retardant. Meets the basic electrotechnical properties: flammability in accordance with UL 94 V0 and 960°C glow wire.

General Information			
Additive	Flame Retardant		
Features	Copolymer		
	Flame Retardant		
	Halogenated		
Uses	Appliances		
	Electrical/Electronic Applications		
	White Goods & Small Appliances		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.05	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	2.3	%	
Flow	2.4	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	30	%	ISO 527-2
Flexural Modulus	1000	MPa	ISO 178
Flexural Stress	35.0	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	90	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	70.0	°C	ISO 75-2/B
Vicat Softening Temperature	105	°C	ISO 306/B
Melting Temperature (DSC)	150	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	27	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 250	°C	
Mold Temperature	30.0 to 50.0	°C	
Injection Pressure	50.0 to 80.0	MPa	

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