SLOVAMID® 6 FRC 2 218/1M

Polyamide 6

Plastcom

Message:

Designed for electrical use. Comes in red / 218 / design. PA 6 injection for reduced flammability, retarded halogen-free flame retardant. Excellent fluidity of the material makes it suitable for the production of complex large-and small stampings. The possibility of using the products have a wall thickness of 0.5 mm. Quality of surface gloss and color types. Note: The product is sensitive to treatment in terms of temperature, cooling time, mold temperature and medium pressure. All these technical characteristics significantly influence the outcome of crystallization of the material and hence the resulting quality characteristics in terms of color and mechanical properties.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant Good Flow Halogen Free		
Uses	Electrical/Electronic Applications		
Appearance	Colors Available Natural Color Red		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.16	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10 to 22	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.87	%	
Flow	1.2	%	
Water Content	0.20	%	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	2350	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	2.0	kJ/m²	
23°C	2.5	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179

-20°C	80	kJ/m²	
23°C	95	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	60.0	°C	ISO 75-2/B
Vicat Softening Temperature	200	°C	ISO 306/B
Melting Temperature (DSC)	222	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index	500	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**	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	30.0 to 50.0	°C	
Injection Pressure	70.0 to 100	MPa	

Recommended distributors for this material

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