Technical Data Sheet

Polyflam RPP 3120 V025 CS1 GRY60305

Polypropylene, Homopolymer

Product Description

20% talc filled flame retardant PP homolymer compound.

Processing Method	Injection Molding
Attribute	Copper Contact Stabilized; Homopolymer
Additive	Flame Retardant
Filler/Reinforcement	Talc, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	17	cm³/10 min	ISO 1133
Density, (Method A)	1.32	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	26.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3200	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	2.3	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	1.6	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	22	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	10	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	100	°C	ISO 306
(A (10N), 50 °C/h)	147	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	119	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	70.0	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	600	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			

Burning Rate			
(2.00 mm, Self-Extinguishing)	0.0	mm/min	FMVSS 302
(2.00 mm, Self-Extinguishing)	0.0	mm/min	ISO 3795
Glow Wire Flammability Index			
(3.0 mm)	960	°C	IEC 60695-2-12
(2.5 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(3.0 mm)	700	°C	IEC 60695-2-13
(2.5 mm)	700	°C	IEC 60695-2-13
UL Information			
Flammability Classification			
(2.5 mm)	V-0		IEC 60695-11-10, -20
(3.0 mm)	V-0		IEC 60695-11-10, -20

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	70 to 80	°C
Processing (Melt) Temp	180 to 220	°C
Mold Temperature	40 to 80	°C