Technical Data Sheet

Polyflam RIPP 3118 MD NAT

Polypropylene Copolymer

Product Description

Talc filled flame retardant PP copolymer compound.

Processing Method	Injection Molding
Attribute	Copolymer
Additive	Flame Retardant
Filler/Reinforcement	Talc

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	10	cm³/10 min	ISO 1133
Density, (Method A)	1.23	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	21.9	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	2.5	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2500	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	3.1	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)	50	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	18	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	66.0	°C	ISO 306
(A (10N), 120 °C/h)	146	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	111	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	69.0	°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			

Glow Wire Flammability Index			
(1.5 mm)	960	°C	IEC 60695-2-12
(3.0 mm)	960	°C	IEC 60695-2-12
UL Information			
Flammability Classification, (1.6 mm)	V-0		IEC 60695-11-10, -20