

Technical Data Sheet

Polyflam RIPP 3125 BLK

Polypropylene Copolymer

Product Description

25% talc filled flame retardant PP copolymer compound without PBDE

Processing Method Injection Molding

Attribute Copolymer

Additive Flame Retardant

Filler/Reinforcement Talc, 25%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	12	cm ³ /10 min	ISO 1133
Density, (Method A)	1.40	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	17.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	2.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2400	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	2.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	37	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	13	kJ/m ²	ISO 179
Hardness			
Ball Pressure Test, (100 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	58.0	°C	ISO 306
(A (10N), 120 °C/h)	138	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	97.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	57.0	°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
Glow Wire Ignition Temperature			
(1.5 mm)	675 °C		IEC 60695-2-13
(3.0 mm)	675 °C		IEC 60695-2-13
Oxygen Index	27 %		ISO 4589-2
UL Information			
Flammability Classification, (1.6 mm)	V-0		IEC 60695-11-10, -20