Technical Data Sheet

Polyflam RIPP 3000 U 30V0 BLK

Polypropylene Copolymer

Product Description

***Polyflam* RIPP 3000 U 30V0 BLK** is an unfilled flame retardant PP copolymer compound with UV stabilization package.

Processing Method	Injection Molding
Attribute	Copolymer; UV Stabilized
Additive	Flame Retardant
Resin ID	PP FR(17)

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	14	cm³/10 min	ISO 1133
Density, (Method A)	1.07	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	23	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	8	%	ISO 527-2
Tensile Stress at Break	18	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	1200	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	5.2	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	No Break		ISO 179
Thermal			
Vicat Softening Temperature, (A (10N))	145	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	90	°C	ISO 75-2/B
Electrical			
Volume Resistivity	>1.0E+13	ohm*cm	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, (3.2 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
Suggested Max Moisture	0.1	%
Nozzle Temperature	220	°C
Processing (Melt) Temp	180 to 220	°C
Front Temperature	210	°C
Holding Pressure	40.0 to 90.0	MPa
Middle Temperature	200	°C
Rear Temperature	180	°C
Injection Rate	Slow-Moderate	
Back Pressure	5.00 to 10.0	MPa
Mold Temperature	40 to 80	°C
Injection Pressure	80.0 to 120	MPa
Cushion	<5.00	mm