

## Technical Data Sheet

**Polyflam RIPP 3000 U 30V0 NAT**

Polypropylene Copolymer

**Product Description**

Unfilled flame retardant PP copolymer compound with UV stabilization package

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

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Volume Flow Rate, (230 °C/2.16 kg)	17	cm <sup>3</sup> /10 min	ISO 1133
Density, (Method A)	0.950	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	30.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	9.0	%	ISO 527-2
Tensile Stress at Break	19.9	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	1300	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	6.0	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	No Break		ISO 179
<b>Thermal</b>			
Vicat Softening Temperature, (A (10N))	147	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	82	°C	ISO 75-2/B
<b>Electrical</b>			
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
<b>Flammable</b>			
Glow Wire Flammability Index			
(1.5 mm)	960	°C	IEC 60695-2-12
(3.0 mm)	960	°C	IEC 60695-2-12
<b>UL Information</b>			
Flammability Classification, (3.2 mm)	V-0		IEC 60695-11-10, -20

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
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