

Technical Data Sheet

Polyflam RPP 1221U-01 NATURAL



Polypropylene Copolymer

Product Description

Polyflam RPP 1221 is a Low-Blooming General Purpose Copolymer Polypropylene Flame-Retardant material with a UL V-2 flammability rating and 115° C temperature index @ 0.030 in.

Processing Method Injection Molding

Additive Flame Retardant

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate	20	g/10 min	ASTM D1238
Density - Specific Gravity	0.95	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	22	MPa	ASTM D638
Flexural Modulus	990	MPa	ASTM D790
Tensile Elongation at Break	100	%	ASTM D638
Impact			
Notched Izod Impact	180	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	50	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	80	°C	ASTM D648
RTI Elec, (0.76 mm)	115	°C	UL 746B
UL Information			
Flame Rating			
(1.5 mm)	V-2		UL 94
(3.0 mm)	V-2		UL 94
UL File Number, (USA)	E51193		

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	70 to 80	°C
Processing (Melt) Temp	180 to 210	°C
Holding Pressure	40.0 to 80.0	MPa
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