

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.

Regulatory Status

For regulatory compliance information, see RPP 1221U-01 NATURAL [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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