

Polyflam RPP 1221U-01 NATURAL

LyondellBasell Industries - Polypropylene Copolymer

General Information

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.

General

Additive	• Flame Retardant
Features	• Flame Retardant
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.952		ASTM D792
Melt Mass-Flow Rate (MFR)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3190	psi	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	144000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	3.4	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	176	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	122	°F	ASTM D648
RTI Elec (0.030 in)	239	°F	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-2		
0.12 in	V-2		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	158 to 176	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	356 to 410	°F
Mold Temperature	104 to 176	°F
Injection Pressure	11600 to 17400	psi
Injection Rate	Slow-Moderate	
Holding Pressure	5800 to 11600	psi
Back Pressure	725 to 1450	psi