Polyflam RPP 2000 S BLK

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

Flame retardant polypropylene homopolymer compound, UV stabilized for outdoor applications (i.e. stadium seats), free of halogens

General

Additive	• Flame Retardant	• UV Stabilizer
Features	• Flame Retardant • Halogen Free	• Homopolymer • UV Stabilized
Uses	• Outdoor Applications	• Seats
Processing Method	• Injection Molding	
Resin ID	• PP FR(53)	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	7.0	cm³/10min	ISO 1133
Water Absorption (Equilibrium, 73°F, 50% RH)	0.16	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	160000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	4640	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	11	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	2.4	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	201	°F	ISO 75-2/Bf
Deflection Temperature Under Load			ISO 75-2/Af
264 psi, Unannealed	120	°F	
Vicat Softening Temperature			
--	194	°F	ISO 306/B50
--	304	°F	ISO 306/A120
Ball Pressure Test (284°F)	Pass		IEC 60695-10-2
RTI Elec			UL 746B
0.030 in	149	°F	
0.06 in	149	°F	
0.12 in	149	°F	
RTI Imp			UL 746B
0.030 in	149	°F	
0.06 in	149	°F	
0.12 in	149	°F	
RTI Str			UL 746B
0.030 in	149	°F	
0.06 in	149	°F	
0.12 in	149	°F	

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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate [2]			
0.0787 in	0.0	in/min	ISO 3795
0.0787 in	0.0	in/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.03 in	V-2		
0.06 in	V-2		
0.13 in	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.030 in	1760	°F	
0.06 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.030 in	1610	°F	
0.06 in	1560	°F	
0.12 in	1470	°F	
Oxygen Index	26	%	ISO 4589-2

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

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Self-Extinguishing