Polyflam RIPP 2000 S WHI87235

LyondellBasell Industries - Polypropylene Copolymer

General Information

Product Description		
Unfilled flame retardant polypropylene copolymer compound, UV stabilized for outdoor applications (i.e. stadium seats), free of halogens according to DIN VDE 0472 part 815		
General		
Additive	• Flame Retardant	• UV Stabilizer
Features	• Copolymer • Flame Retardant	• Halogen Free • 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)	13	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	160000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	3480	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.2	ft·lb/in²	
73°F	6.2	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	22	ft·lb/in²	
73°F	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	172	°F	ISO 75-2/Bf
Deflection Temperature Under Load			ISO 75-2/Af
264 psi, Unannealed	127	°F	
Vicat Softening Temperature			
--	147	°F	ISO 306/B50
--	286	°F	ISO 306/A120
Ball Pressure Test (248°F)	Pass		IEC 60695-10-2
RTI Elec			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
RTI Imp			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
RTI Str			UL 746B
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	1290	°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
Rear Temperature	356	°F
Middle Temperature	374	°F
Front Temperature	392	°F
Nozzle Temperature	410	°F
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	4350 to 10200	psi
Back Pressure	725 to 1450	psi

Notes

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

[2] Self-Extinguishing