

Polyflam RPP 2000S K2043 GRY64540

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

Flame retardant polypropylene homopolymer compound, UV stabilized for outdoor applications, free of halogens

General

Additive	<ul style="list-style-type: none"> Flame Retardant UV Stabilizer
Features	<ul style="list-style-type: none"> Flame Retardant Halogen Free Homopolymer UV Stabilized
Uses	<ul style="list-style-type: none"> Outdoor Applications Seats
Processing Method	<ul style="list-style-type: none"> Injection Molding
Resin ID	<ul style="list-style-type: none"> PP FR(53)

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (190°C/10.0 kg)	10	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 73°F, 50% RH)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	218000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	4640	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	9.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	ft·lb/in ²	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)	189	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	111	°F	ISO 75-2/ Af
Vicat Softening Temperature			
--	180	°F	ISO 306/B50
--	300	°F	ISO 306/A120
Ball Pressure Test (284°F)	Pass		IEC 60695-10-2
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
Flammability Classification			IEC 60695-11-10, -20
0.03 in		V-2	
0.06 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	

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Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature			IEC 60695-2-13
0.030 in	1380	°F	
0.06 in	1380	°F	
0.12 in	1380	°F	
Oxygen Index	29	%	ISO 4589-2

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	158 to 176	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	< 0.10	%
Melt Temperature	338 to 410	°F