



# Polyflam RPC 40400 GRY68290

LyondellBasell Industries - Polycarbonate

## General Information

### Product Description

Flame retardant PC; halogen free according to DIN VDE 0472 part 815

### General

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

## Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	25	cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	348000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	8700	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	9.5	ft-lb/in <sup>2</sup>	
73°F	29	ft-lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	217	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	203	°F	ISO 75-2/Af
Vicat Softening Temperature			
--	230	°F	ISO 306/B50
--	239	°F	ISO 306/A50
Ball Pressure Test (221°F)	Pass		IEC 60695-10-2
RTI Elec			UL 746B
0.06 in	176	°F	
0.12 in	176	°F	
RTI Imp			UL 746B
0.06 in	176	°F	
0.12 in	176	°F	
RTI Str			UL 746B
0.06 in	176	°F	
0.12 in	176	°F	
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

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<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Comparative Tracking Index	225	V	IEC 60112
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Burning Rate <sup>2</sup>			
0.0787 in	0.0	in/min	ISO 3795
0.0787 in	0.0	in/min	FMVSS 302
Flame Rating			UL 94
0.06 in	V-0		
0.12 in	V-0		
0.14 in	5VA		
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in	1560	°F	
0.12 in	1430	°F	
Oxygen Index	33	%	ASTM D2863

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	212 to 248	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	500 to 518	°F
Mold Temperature	122 to 176	°F
Injection Rate	Moderate-Fast	
Back Pressure	725 to 1450	psi
Screw Speed	< 591	in/min