

# Polyflam RIPP 2000 HI BUE48625

LyondellBasell Industries - Polypropylene Copolymer

## General Information

### Product Description

Unfilled flame-retardant PP-Copolymer grade, halogen free acc. DIN VDE 0172 part 815, high impact

### General

Additive	<ul style="list-style-type: none"> <li>Flame Retardant</li> <li>Impact Modifier</li> </ul>
Features	<ul style="list-style-type: none"> <li>Copolymer</li> <li>Flame Retardant</li> <li>Good Processability</li> <li>Halogen Free</li> <li>High Impact Resistance</li> <li>Impact Modified</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>
Resin ID	<ul style="list-style-type: none"> <li>PP FR(53)</li> </ul>

## Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	10	cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	160000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	3340	psi	ISO 527-2/1A/50
Tensile Stress (Break)	2610	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	300	%	ISO 527-2/1A/50
Flexural Modulus <sup>2</sup>	160000	psi	ISO 178
Flexural Stress <sup>2</sup>			ISO 178
6.4% Strain	3920	psi	
3.5% Strain	3190	psi	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	5.7	ft·lb/in <sup>2</sup>	
73°F	5.2	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	38	ft·lb/in <sup>2</sup>	
73°F	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	160	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	113	°F	ISO 75-2/Af
Vicat Softening Temperature			
--	142	°F	ISO 306/B50
--	284	°F	ISO 306/A50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112

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<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
0.031 in		V-2	
0.06 in		V-2	
0.13 in		V-2	
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	
0.08 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.030 in	1430	°F	
0.06 in	1340	°F	
0.08 in	1340	°F	
0.12 in	1380	°F	

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	158	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	356 to 428	°F
Mold Temperature	104 to 176	°F
Injection Pressure	11600 to 17400	psi
Injection Rate	Slow-Moderate	
Holding Pressure	5800 to 13100	psi
Back Pressure	725 to 1450	psi
Screw Speed	< 709	in/min

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min