



# Polyflam RIPP 4000 OSDK 3014 BUE49805

LyondellBasell Industries - Polypropylene Copolymer

## General Information

### Product Description

Flame-retardant PP-Copolymer, halogenfree, optimized smoke density

### General

Additive	• Flame Retardant
Features	• Copolymer • Flame Retardant
Processing Method	• Extrusion
Resin ID	• PP FR(51)

## Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	4.0	cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	305000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	2900	psi	ISO 527-2/1A/50
Tensile Stress (Break)	2180	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.3	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	50	%	ISO 527-2/1A/50
Flexural Modulus <sup>2</sup>	305000	psi	ISO 178
Flexural Stress <sup>2</sup>			ISO 178
3.5% Strain	5080	psi	
4.0% Strain	5080	psi	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	0.48	ft-lb/in <sup>2</sup>	
73°F	1.4	ft-lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	9.5	ft-lb/in <sup>2</sup>	
73°F	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	208	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	140	°F	ISO 75-2/Af
Vicat Softening Temperature			
--	165	°F	ISO 306/B50
--	311	°F	ISO 306/A50
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
Electric Strength <sup>3</sup> (73°F, 0.0394 in, in Oil)	1100	V/mil	IEC 60243-1
Comparative Tracking Index (CTI)	600	V	UL 746A

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Flammability	Nominal Value	Unit	Test Method
Burning Rate <sup>4</sup>			
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
0.030 in		V-0	
0.06 in	•	V-0	
	•	5VB	
0.12 in		V-0	
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	1340	°F	
0.06 in	1340	°F	
0.12 in	1340	°F	
Oxygen Index	33	%	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	392	°F
Front Temperature	410	°F
Nozzle Temperature	428	°F
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
Cushion	< 0.197	in

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

**Notes**

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

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

<sup>3</sup> 2000 V/sec

<sup>4</sup> Self-Extinguishing