Technical Data Sheet

LyondellBasell

Polyflam RIPP 600E-01

Polypropylene
LyondellBasell Industries
Engineering Plastics

Product Description	
Copolymer-polypro FR compound	
General	
Material Status	• Commercial: Active
Availability	• North America
Features	• Flame Retardant
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1] (230°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength [2]			ASTM D638
Yield	1890 psi	13.0 MPa	
Break	2470 psi	17.0 MPa	
Tensile Elongation [2]			ASTM D638
Yield	14 %	14 %	
Break	550 %	550 %	
Flexural Modulus	139000 psi	960 MPa	ASTM D790
Flexural Strength (Yield)	2760 psi	19.0 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	13 ft·lb/in	690 J/m	ASTM D256
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Rockwell Hardness (R-Scale)	54	54	ISO 2039-2
Durometer Hardness (Shore A)	94	94	ASTM D2240
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	181 °F	83.0 °C	
264 psi (1.8 MPa), Unannealed	122 °F	50.0 °C	
Aging	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Change in Ultimate Elongation in Air			ASTM D573
212°F (100°C), 240 hr	85 %	85 %	
Change in Tensile Strength			ASTM D471
212°F (100°C), 240 hr	110 %	110 %	
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	> 1.0E+14 ohms	> 1.0E+14 ohms	ASTM D257
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 to 0.12 in (1.5 to 3.0 mm)	V-0	V-0	

Notes

[1] Procedure A

[2] 2.0 in/min (50 mm/min)

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

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Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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