

Technical Data Sheet

Polyflam RIPP 600E-01 Natural

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/cm ³	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	V-2	V-2	UL 94

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.