Technical Data Sheet

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.