

Polyflam RHD 200 D

Polyethylene
LyondellBasell Industries
Engineering Plastics

Product Description

Flame retardant PE-HD compound (UL 94 V-2) without PBDE

General

Features	• Flame Retardant
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 Kg)	9.0 cm ³ /10min	9.0 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	203000 psi	1400 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	3920 psi	27.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	11 %	11 %	ISO 527-2/1A/50
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	167 °F	75.0 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	113 °F	45.0 °C	ISO 75-2/Af
Vicat Softening Temperature	248 °F	120 °C	ISO 306/A120
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·cm	> 1.0E+13 ohms·cm	IEC 60093
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability Classification			
0.06 In (1.5 Mm)	V-2	V-2	IEC 60695-11-10, -20
0.12 In (3.0 Mm)	V-2	V-2	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 In (1.5 Mm)	1760 °F	960 °C	
0.12 In (3.0 Mm)	1760 °F	960 °C	
Oxygen Index	35 %	35 %	ISO 4589-2

Notes

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

