

Technical Data Sheet

Polyaxis RLLP 622 (FR V-2 Rated)

High Density Polyethylene
 LyondellBasell Industries
 Rotomolding

General		
Appearance	• Colors Available	• White
Forms	• Pellets	• Powder
Processing Method	• Rotational Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity ¹	1.02	1.02 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	6.5 g/10 min	6.5 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield, Rotational Molded)	2200 psi	15.2 MPa	ASTM D638
Tensile Elongation ² Break, Rotational Molded	50 %	50 %	ASTM D638
Flexural Modulus - 1% Secant (Rotational Molded)	85000 psi	586 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Impact Strength			ARM
-40°F (-40°C), 0.125 In (3.18 Mm), Rotational Molded	20 ft·lb	27 J	
-40°F (-40°C), 0.250 In (6.35 Mm), Rotational Molded ³	20 ft·lb	27 J	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 Psi (0.45 Mpa), Unannealed, Rotational Molded	118 °F	48.0 °C	ASTM D648
264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm), Rotational Molded	103 °F	39.2 °C	

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 In (1.5 Mm), Any Color)	V-2	V-2	UL 94

Notes

¹ Compression Molded

² 2.0 in/min (51 mm/min)

³ Dart weight 20 lbs

Notes

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