

Technical Data Sheet

**Polyaxis RLLP 622 (FR V-2 Rated)**

High Density Polyethylene
LyondellBasell Industries
Rotomolding

General			
Material Status	• Commercial: Active		
Availability	• North America		
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/cm³	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			ASTM D638
Break, Rotational Molded	50 %	50 %	
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			ASTM D648
66 psi (0.45 MPa), Unannealed, Rotational Molded	118 °F	48.0 °C	
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.

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.

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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