

Technical Data Sheet

**Polyaxis LP 8800**

Metallocene High Density Polyethylene

LyondellBasell Industries

Rotomolding

Product Description

PolyAxis LP-8800 is a high density polyethylene intended for the rotational molding industry. This stiff yet tough compound was designed for watercraft products.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• UV Stabilizer
Appearance	• Colors Available
Forms	• Pellets • Powder
Processing Method	• Rotational Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity ¹	0.955	0.953 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.2 g/10 min	4.2 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield, Rotational Molded)	3630 psi	25.0 MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	9.0 %	9.0 %	
Break, Rotational Molded ²	270 %	270 %	
Flexural Modulus - 1% Secant (Rotational Molded)	163000 psi	1120 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Impact Strength			ARM
40°F (4°C), 0.126 in (3.19 mm), Rotational Molded	61 ft-lb	83 J	

Notes

¹ Compression Molded

² 2.0 in/min (51 mm/min)

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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