

Technical Data Sheet

Polyaxis LP 8100-4A475G ADO BEI



Polyethylene, High Density, Metallocene

Product Description

Polyaxis LP-8100 is a high density polyethylene intended for the rotational molding industry. This stiff yet tough compound was designed for watercraft products.

Regulatory Status

For regulatory compliance information, see *Polyaxis* LP 8100-4A475G ADO BEI [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Processing Method	Rotomolding
Forms	Pellets; Powder
Appearance	Colors Available
Additive	UV Stabilizer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	5.8	g/10 min	ASTM D1238
Density - Specific Gravity	0.947	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield, (51 mm/min, Rotational Molded)	22.4	MPa	ASTM D638
Environmental Stress Crack Resistance, (Compression Molded, F50, 10% Igepal)	6.00	hr	ASTM D1693
Flexural Modulus, (Rotational Molded, 1% Secant)	993	MPa	ASTM D790
Tensile Elongation at Break, (51 mm/min, Rotational Molded)	200	%	ASTM D638
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	81	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	>258	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm, Rotational Molded)	40.6	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (3.18 mm, Rotational Molded)	70.0	°C	ASTM D648

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.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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