# **Technical Data Sheet**

# Polyaxis LLP 3550-4A440G TAN



Linear Low Density Polyethylene

# **Product Description**

*Polyaxis* LLP 3550 is a linear low density polyethylene intended for the rotational molding industry. Offers excellent ESCR and toughness.

# **Regulatory Status**

For regulatory compliance information, see *Polyaxis* LLP 3550-4A440G TAN <u>Product Stewardship Bulletin (PSB)</u> and Safety Data Sheet (SDS).

Status Commercial: Active
Availability North America

Processing Method Rotomolding

Attribute Good ESCR (Environmental Stress Cracking Resistance); Good Toughness; Hexene

Manalmal

Comonomer; UV Resistant

**Forms** Powder

Appearance Colors Available

Application Agricultural Tanks; Outdoor Applications; Pallets; Septic Tanks; Toys

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	5.0	g/10 min	ASTM D1238
Density - Specific Gravity	0.935	g/cm³	ASTM D1505
Mechanical			
Tensile Elongation at Yield, (51 mm/min)	20	%	ASTM D638
Tensile Strength at Yield, (50 mm/min, Rotational Molded)	16.5	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Compression Molded, F50, 100% Igepal)	>980	hr	ASTM D1693
(Compression Molded, F50, 10% Igepal)	60.0	hr	ASTM D1693
Flexural Modulus, (Rotational Molded, 1% Secant)	621	MPa	ASTM D790
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	81	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	217	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	36.1	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	50	°C	ASTM D648
Peak Melting Temperature	126	°C	ASTM D3418

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## **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 <a href="http://www.lyb.com/">http://www.lyb.com/</a>.

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