

Polyaxis LLP3550-2A888G GRAY 427

LyondellBasell Industries - Linear Low Density Polyethylene

General Information

Product Description

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

General

Features	<ul style="list-style-type: none"> • Good ESCR (Stress Crack Resist.) • Good Toughness 	<ul style="list-style-type: none"> • Hexene Copolymer • UV Resistant 	
Uses	<ul style="list-style-type: none"> • Agricultural Tanks • Outdoor Applications 	<ul style="list-style-type: none"> • Pallets • Septic Tanks 	<ul style="list-style-type: none"> • Toys
Appearance	<ul style="list-style-type: none"> • Colors Available 		
Forms	<ul style="list-style-type: none"> • Powder 		
Processing Method	<ul style="list-style-type: none"> • Rotational Molding 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal, Compression Molded, F50	60.0	hr	
100% Igepal, Compression Molded, F50	> 980	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Rotational Molded)	2390	psi	ASTM D638
Tensile Elongation ² (Yield)	20	%	ASTM D638
Flexural Modulus - 1% Secant (Rotational Molded)	90100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°F, 0.125 in, Rotational Molded	60	ft-lb	
-40°F, 0.250 in, Rotational Molded	160	ft-lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	122	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	97.0	°F	ASTM D648
Peak Melting Temperature	259	°F	ASTM D3418

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min