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Polyaxis LP 8100-01

LyondellBasell Industries - Metallocene High Density Polyethylene

General Information

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.

General

Additive	• UV Stabilizer	
Features	• UV Stabilized	
Appearance	• Colors Available	
Forms	• Pellets	• Powder
Processing Method	• Rotational Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.949		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.8	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal, Compression Molded, F50	6.00	hr	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Rotational Molded)	3250	psi	ASTM D638
Tensile Elongation [2] (Break, Rotational Molded)	200	%	ASTM D638
Flexural Modulus - 1% Secant (Rotational Molded)	144000	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	> 190	ft·lb	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, 0.125 in, Rotational Molded	158	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.125 in, Rotational Molded	105	°F	

Notes

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

[2] 2.0 in/min