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Technical Data Sheet

lyondellbasell

Polyaxis LP 8100 Metallocene High Density Polyethylene

Metallocene High Density Polyethylene LyondellBasell Industries Rotomolding

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 		
Appearance	 Colors Available 		
Forms	Pellets	Powder	
Processing Method	 Rotational Molding 		

Newinel Velue (English)		
Nominal Value (English)	Nominal Value (SI)	Test Method
0.949	0.947 g/cm ³	ASTM D792
5.8 g/10 min	5.8 g/10 min	ASTM D1238
		ASTM D1693
6.00 hr	6.00 hr	
Nominal Value (English)	Nominal Value (SI)	Test Method
3250 psi	22.4 MPa	ASTM D638
		ASTM D638
200 %	200 %	
144000 psi	993 MPa	ASTM D790
Nominal Value (English)	Nominal Value (SI)	Test Method
		ARM
60 ft·lb	81 J	
> 190 ft·lb	> 258 J	
Nominal Value (English)	Nominal Value (SI)	Test Method
		ASTM D648
158 °F	70.0 °C	
105 °F	40.6 °C	
	0.949 5.8 g/10 min 6.00 hr Nominal Value (English) 3250 psi 200 % 144000 psi Nominal Value (English) 60 ft·lb > 190 ft·lb Nominal Value (English) 158 °F	0.949 0.947 g/cm³ 5.8 g/10 min 5.8 g/10 min 6.00 hr 6.00 hr Nominal Value (English) Nominal Value (SI) 3250 psi 22.4 MPa 200 % 200 % 144000 psi 993 MPa Nominal Value (English) Nominal Value (SI) 60 ft·lb 81 J > 190 ft·lb > 258 J Nominal Value (English) Nominal Value (SI) 158 °F 70.0 °C

¹ Compression Molded

² 2.0 in/min (51 mm/min)

³ Dart Weight 20 lbs

Notes

These are typical property values not to be construed as specification limits.