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Technical Data Sheet

lyondellbasell

Icorene X1490

Linear Medium Density Polyethylene LyondellBasell Industries Rotomolding

Product Description

ICORENE® X1490 is an experimental UV stabilised linear medium density polyethylene colour powder.

It has been developed for use as a powder in rotational moulding. Data is provisional.

This grade is a very fast processing material which is unusually high in ESCR and cold impact strength. It is suitable for use in many different applications but especially where very fast melting is needed. It is easy to process with a low shrinkage tendency.

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General				
Additive	UV Stabilizer			
Features	General PurposeGood FlowGood Moldability	Good ProcessabilityGood StiffnessGood Toughness	UV Resistant	
Uses	 General Purpose 			
Appearance	 Unspecified Color 			
Forms	Powder			
Processing Method	 Rotational Molding 			

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density (73°f (23°c))	0.936 g/cm³	0.936 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°c/2.16 Kg)	12 g/10 min	12 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
Condition B, 122°f (50°c), 10% Igepal, Rotational Molded, F50	> 500 hr	> 500 hr	
Condition B, 122°f (50°c), 100% Igepal, Rotational Molded, F50	> 1000 hr	> 1000 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (73°f (23°c))	102000 psi	700 MPa	ISO 527-1
Tensile Strength (Yield)	2470 psi	17.0 MPa	ISO 527
Tensile Strain (Break, 73°f (23°c))	> 450 %	> 450 %	ISO 527-2
Flexural Modulus (73°f (23°c))	87000 psi	600 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Impact Strength ¹ (-22°f (-30°c))	34.7 ft·lb/in ²	73.0 kJ/m²	ISO 8256
Drop Impact Resistance			
-40°f (-40°c), Rotomoulding	> 5.17 in·lb/mil	> 230 J/cm	ARM
-4°f (-20°c), 0.126 In (3.20 Mm), Rotomoulding ²	> 4.50 in Ib/mil	> 200 J/cm	Internal Method
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	223 °F	106 °C	ISO 306/A

Notes

¹ Notched

² Based on ISO 6603

Notes

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