Technical Data Sheet

Icorene 1613

Linear Medium Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 1613 is a hexene linear medium density polyethylene specifically developed for use in rotational moulding.

This grade is designed for applications requiring good processability, stiffness and toughness. The constituents of this product are suitable for food contact applications.
ICORENE® 1613 is TÜV approved, protocolnr 175XS0124-00.

General

Additive	• UV Stabilizer		
Features	• Food Contact Acceptable • Good Impact Resistance • Good Processability	• Good Stiffness • Good Toughness • Hexene Comonomer	• UV Resistant
Uses	• Tanks		
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density (73°f (23°c))	0.938 g/cm³	0.938 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°c/2.16 Kg)	4.5 g/10 min	4.5 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°f (50°c), 100% Igepal	> 1000 hr	> 1000 hr	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength			ISO 527-1
Yield, 73°f (23°c), 0.126 In (3.20 Mm), Rotational Molded	2900 psi	20.0 MPa	
Tensile Elongation			ISO 527-1
Break, Rotational Molded	> 1000 %	> 1000 %	
Flexural Modulus (73°f (23°c))	109000 psi	750 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Drop Impact Resistance [1] (-4°f (-20°c))	> 4.50 in·lb/mil	> 200 J/cm	Internal Method
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Shore Hardness (Shore D)	62	62	ISO 868
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/B
66 Psi (0.45 Mpa), Unannealed	149 °F	65.0 °C	
Vicat Softening Temperature	243 °F	117 °C	ISO 306/A
Melting Temperature	261 °F	127 °C	ISO 11357-3

Notes

[1] based on ISO 6603

Notes

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