

Technical Data Sheet

Icorene 3546

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 3546 Linear Low Density polyethylene is a Hexene copolymer, specifically developed for rotational moulding.

This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow and stiffness.

General

Additive	• UV Stabilizer		
Features	• General Purpose • Good Processability	• Good Toughness • High Stiffness	• UV Resistant
Uses	• Containers	• General Purpose	• Tanks
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.935 g/cm³	0.935 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	4.1 g/10 min	4.1 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 0.0748 In (1.90 Mm), 100% Igepal, Compression Molded	> 1000 hr	> 1000 hr	ASTM D1693

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ISO 527
Yield	2030 psi	14.0 MPa	
Break	2470 psi	17.0 MPa	
Tensile Elongation (Break)	650 %	650 %	ASTM D638
Flexural Modulus	65300 psi	450 MPa	ISO 178

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	234 °F	112 °C	ISO 306/A
Melting Temperature	250 °F	121 °C	DSC

Notes

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