Technical Data Sheet

Icorene 3546 NAT0000

Linear Low Density Polyethylene

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.

Regulatory Status

For regulatory compliance information, see *Icorene* 3546 NAT0000 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Europe
Processing Method	Rotomolding
Attribute	Good Processability; Good Toughness; High Stiffness; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Containers; General Purpose; Tanks

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4.1	g/10 min	ASTM D1238
Density	0.935	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield	14.0	MPa	ISO 527
Tensile Strength at Break	17.0	MPa	ISO 527
Flexural Modulus	450	MPa	ISO 178
Environmental Stress Crack Resistance, (Compression Molded, 100% Igepal, 50 °C, 1.90 mm)	>1000	hr	ASTM D1693
Tensile Elongation at Break	650	%	ASTM D638
Thermal			
Vicat Softening Temperature, (A (10N))	112	°C	ISO 306
Melting Temperature	121	°C	DSC

Manufacturer website: https://www.lyondellbasell.com/en/

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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