

Technical Data Sheet

**Icorene 1041**

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 1041 is a linear low density polyethylene 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

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Good Flow • Good Processability	• Good Stiffness • Good Toughness	• UV Resistant
Uses	• Agricultural Tanks	• Containers	• General Purpose
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.932 g/cm ³	0.932 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.4 g/10 min	4.4 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	2470 psi	17.0 MPa	
Break	2900 psi	20.0 MPa	
Tensile Elongation			ASTM D638
Yield	28 %	28 %	
Break	1300 %	1300 %	
Flexural Modulus	71100 psi	490 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹			Internal Method
-40°F (-40°C)	4.27 in·lb/mil	190 J/cm	
-4°F (-20°C)	4.05 in·lb/mil	180 J/cm	
73°F (23°C)	3.15 in·lb/mil	140 J/cm	

Notes

¹ Based on ISO 6603

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

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