

Technical Data Sheet

**Icorene 1061 ESF WHITE 1001**

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 1061 ESF WHITE 1001 is the "next generation" enhanced surface finish polyethylene, specifically developed for rotational moulding.

This grade is designed to remove the surface pinholes during processing for applications such as hygienic, medical, furniture and design applications. ICORENE® 1061 ESF WHITE 1001 is easy to process, has a good flow and good physical properties.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• General Purpose • Good Flow	• Good Moldability • Good Processability	• Good Stiffness • UV Resistant
Uses	• Food Containers • Furniture	• General Purpose • Hygiene	• Toys
Appearance	• White		
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.934 g/cm ³	0.934 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2610 psi	18.0 MPa	ASTM D638
Tensile Elongation (Yield)	23 %	23 %	ASTM D638
Flexural Modulus	79800 psi	550 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹ (-4°F (-20°C))	3.82 in-lb/mil	170 J/cm	Internal Method
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	57	57	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature (DSC)	257 °F	125 °C	ISO 3146

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 affect 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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