

Technical Data Sheet

**Icorene 3590 AMB**

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 3590 AMB is a linear low density polyethylene antimicrobial grade specifically developed for rotational moulding. It contains a proven Antimicrobial additive developed using silver based technology. The grade is suitable for use in general purpose applications and has a good balance of properties such as toughness, easy flow and stiffness.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• Biocide	• UV Stabilizer	
Features	• Good Flow • Good Moldability	• Good Processability • Good Stiffness	• Good Toughness • UV Resistant
Uses	• General Purpose		
Appearance	• Colors Available	• Natural Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.935 g/cm ³	0.935 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0 g/10 min	9.0 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 100% Igepal	> 150 hr	> 150 hr	ASTM D1693

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2470 psi	17.0 MPa	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))	3.60 in·lb/mil	160 J/cm	Internal Method

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	53	53	ISO 868

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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