

Technical Data Sheet

**Icorene 3590 Natural MP3**

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 3590 MP3 is a linear low density polyethylene grade specifically developed for rotational moulding. The grade is suitable for use in general purpose applications and has a good balance of properties such as toughness, easy flow and stiffness. This grade is supplied in micro-pellet form for super-fast dry flow characteristics.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Good Moldability • Good Processability	• Good Stiffness • Good Toughness	• High Flow • UV Resistant
Uses	• General Purpose		
Appearance	• Natural Color		
Forms	• Microgranules		
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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