

Technical Data Sheet

**Icorene 1901**

Ethylene-based Plastomer
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 1901 is an ethylene based octene plastomer powder developed for rotational moulding.

This grade is particularly suitable for use in flexible applications such as buoys.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Good Flexibility • Good Toughness	• Octene Comonomer • UV Resistant	
Uses	• Flotation Devices	• Furniture	• Outdoor Furnishings
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.902 g/cm ³	0.902 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10 g/10 min	10 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	725 psi	5.00 MPa	
Break	1380 psi	9.50 MPa	
Tensile Elongation			ASTM D638
Yield	150 %	150 %	
Break	1600 %	1600 %	
Flexural Modulus	14500 psi	100 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹ (-4°F (-20°C))	4.05 in·lb/mil	180 J/cm	Internal Method
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	40	40	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	171 °F	77.0 °C	ASTM D1525
Melting Temperature	203 °F	95.0 °C	

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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