

Technical Data Sheet

**Icorene 1506**

Crosslinked Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 1506 is a crosslinkable high density polyethylene specifically developed for rotational moulding.

This grade is particularly suitable for use in applications requiring exceptional impact resistance at low temperature, toughness and excellent ESCR such as fuel tanks.

The cross linking system used allows a wider processing windows and higher PIAT can be reached.

General

Material Status	• Commercial: Active	
Availability	• Europe	
Additive	• UV Stabilizer	
Features	• Crosslinkable • Good Processability	• High Impact Resistance • UV Resistant
Uses	• Fuel Tanks	• Industrial Containers
Appearance	• Natural Color	• Unspecified Color
Forms	• Powder	
Processing Method	• Rotational Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 10% Igepal	> 1000 hr	> 1000 hr	ASTM D1693
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2900 psi	20.0 MPa	ASTM D638
Tensile Elongation (Break)	800 %	800 %	ASTM D638
Flexural Modulus	109000 psi	750 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance (-40°F (-40°C))	7.19 in·lb/mil	320 J/cm	ASTM D4226
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	109 °F	43.0 °C	ASTM D648

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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