

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

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.