

ICORENE® 1505 BLACK 9001

Crosslinked Polyethylene
Rotomolding

Product Description

ICORENE® 1505 Black 9001 is a crosslinkable black 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 original cross linking system used allows a perfect moulding of the part free of pinholes.

ICORENE® 1505 Black 9001 is TÜV approved, protocolnr 163XS0034-00.

General

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.943 g/cm ³	0.943 g/cm ³	ASTM D1505
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)	3050 psi	21.0 MPa	ASTM D638
Tensile Elongation (Break)	600 %	600 %	ASTM D638
Flexural Modulus	102000 psi	700 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
Heat Deflection Temperature 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.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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