

Technical Data Sheet

Icorene 1505 BLACK 9001

Crosslinked Polyethylene
LyondellBasell Industries
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 is low odor and allows a perfect moulding of the part free of pinholes.

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

General

Additive	• UV Stabilizer		
Features	• Crosslinkable • Good Processability	• High ESCR (Stress Crack Resist.) • High Impact Resistance	• Low Odor • 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/cm³	0.943 g/cm³	ASTM D1505
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°F (50°C), 10% Igepal	> 1000 hr	> 1000 hr	
122°F (50°C), 100% Antarox, Rotational Molded, F50	> 1000 hr	> 1000 hr	
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			ARM
-40°F (-40°C), 0.126 In (3.20 Mm)	7.19 in·lb/mil	320 J/cm	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 Psi (1.8 Mpa), Unannealed	109 °F	43.0 °C	
Vicat Softening Temperature	261 °F	127 °C	ISO 306/A50

Notes

These are typical property values not to be construed as specification limits.