

Technical Data Sheet

lcorene 1505 BLK 9001

Polyethylene, Crosslinked

Product Description

lcorene 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. *lcorene* 1505 Black 9001 is TÜV approved, protocolnr 163XS0034-00.

Processing Method	Rotomolding
Attribute	Crosslinkable; Good Processability; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; UV Resistant
Forms	Powder
Appearance	Black
Additive	UV Stabilizer
Application	Industrial Containers

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	0.943	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield	21	MPa	ASTM D638
Environmental Stress Crack Resistance			
(10% Igepal, 50 °C)	>1000	hr	ASTM D1693
(Rotational Molded, F50, 100% Antarox, 50 °C)	>1000	hr	ASTM D1693
Flexural Modulus	700	MPa	ASTM D790
Tensile Elongation at Break	600	%	ASTM D638
Impact			
Drop Impact Resistance, (-40 °C, 3.20 mm)	320	J/cm	ARM
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	127	°C	ISO 306
Deflection Temperature Under Load Unannealed (1.80 MPa)	43.0	°C	ASTM D648