

Technical Data Sheet

lcorene 1613 G BLK BK85

Polyethylene, Linear Medium Density

Product Description

lcorene 1613 BK85 is a hexene linear medium density polyethylene specifically developed for use in rotational moulding. This grade is designed for applications requiring good processability, stiffness and toughness. This product is particularly suitable for the production of diesel fuel tanks. *lcorene* 1613 BK85 is TUV ECE R34 approved, protocolnr: 175XS0121-00. *lcorene* 1613 BK85 is WRAS approved:1810500.

Processing Method	Rotomolding
Attribute	Good Impact Resistance; Good Processability; Good Stiffness; Good Toughness; Hexene Comonomer; UV Resistant
Forms	Powder
Appearance	Black
Additive	UV Stabilizer
Application	Fuel Tanks

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4.5	g/10 min	ISO 1133
Density	0.938	g/cm ³	ISO 1183
Mechanical			
Tensile Strength at Yield, (23 °C, Rotational Molded)	20.0	MPa	ISO 527-1
Environmental Stress Crack Resistance			
(Condition B, F50, 10% Igepal, 50 °C)	>250	hr	ASTM D1693
(Condition B, F50, 100% Igepal, 50 °C)	>1000	hr	ASTM D1693
Flexural Modulus, (23 °C, Rotational Molded)	750	MPa	ISO 178
Tensile Elongation at Break, (23 °C, Rotational Molded)	>600	%	ISO 527-1
Impact			
Drop Impact Resistance			
(-20 °C, Internal Method)	>200	J/cm	ASTM D4226
(-40 °C)	>210	J/cm	ARM
Hardness			
Durometer Hardness, (Shore D)	62		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N))	117	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	65	°C	ISO 75-2/B
Melting Temperature	127	°C	ISO 11357-3