

## Technical Data Sheet

***Icorene* 1613 G BLK BK85**

Polyethylene, Linear Medium Density

**Product Description**

*Icorene* 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. *Icorene* 1613 BK85 is TUV ECE R34 approved, protocolnr: 175XS0121-00. *Icorene* 1613 BK85 is WRAS approved:1810500.

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

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	4.5	g/10 min	ISO 1133
Density	0.938	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
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
<b>Impact</b>			
Drop Impact Resistance			
(-20 °C, Internal Method)	>200	J/cm	ASTM D4226
(-40 °C)	>210	J/cm	ARM
<b>Hardness</b>			
Durometer Hardness, (Shore D)	62		ISO 868
<b>Thermal</b>			
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