

## Technical Data Sheet

*Icorene* 1613 GRN 6435

Polyethylene, Linear Medium Density

**Product Description**

*Icorene* 1613 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. The constituents of this product are suitable for food contact applications. *Icorene* 1613 is TÜV approved, protocolnr 175XS0124-00.

<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>	Natural Color; Unspecified Color
<b>Additive</b>	UV Stabilizer
<b>Application</b>	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, (23 °C)	0.938	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Strength at Yield, (23 °C, 3.20 mm, 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)	750	MPa	ISO 178
Tensile Elongation at Break, (Rotational Molded)	>1000	%	ISO 527-1
<b>Impact</b>			
Drop Impact Resistance, (-20 °C, Internal Method)	>200	J/cm	ASTM D4226
<b>Hardness</b>			
Shore 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