

## Technical Data Sheet

### *Icorene* 3590 ORE 3023

Linear Low Density Polyethylene

#### Product Description

*Icorene* 3590 is a linear low density polyethylene specifically developed for rotational moulding. This grade is a very fast processing material suitable for use in many different applications. It has a good balance of properties such as toughness, easy flow and stiffness.

<b>Processing Method</b>	Rotomolding
<b>Attribute</b>	Good Flow; Good Moldability; Good Processability; Good Stiffness; Good Toughness; UV Resistant
<b>Forms</b>	Powder
<b>Appearance</b>	Natural Color; Unspecified Color
<b>Additive</b>	UV Stabilizer
<b>Application</b>	General Purpose

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	9.0	g/10 min	ASTM D1238
Density	0.935	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield	17.0	MPa	ISO 527
Tensile Strength at Break	16.0	MPa	ISO 527
Environmental Stress Crack Resistance, (Condition B, F50, 100% Igepal, 50 °C)	>150	hr	ASTM D1693
Flexural Modulus	550	MPa	ISO 178
<b>Impact</b>			
Drop Impact Resistance, (-20 °C, Internal Method)	160	J/cm	ASTM D4226
<b>Hardness</b>			
Durometer Hardness, (Shore D)	53		ISO 868
<b>Thermal</b>			
Vicat Softening Temperature, (A (10N))	113	°C	ISO 306
Melting Temperature	126	°C	DSC