

## Technical Data Sheet

### *Icorene* 3855 STO 9215

Polyethylene, Medium Density

#### Product Description

*Icorene* 3855 is a hexene medium density polyethylene with outstanding processability, specifically developed for rotational moulding. This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow and stiffness.

<b>Processing Method</b>	Rotomolding
<b>Attribute</b>	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>	Containers; General Purpose

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	5.0	g/10 min	ASTM D1238
Density	0.938	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield	19.0	MPa	ISO 527
Flexural Modulus	750	MPa	ISO 178
Tensile Elongation at Break	>700	%	ASTM D638
<b>Impact</b>			
Drop Impact Resistance, (-20 °C, Internal Method)	190	J/cm	ASTM D4226
<b>Hardness</b>			
Durometer Hardness, (Shore D)	55		ASTM D2240
<b>Thermal</b>			
Vicat Softening Temperature	116	°C	ISO 306
Melting Temperature	127	°C	DSC