

## Technical Data Sheet

### *Icorene* 3940-3420G Black

Polyethylene, Linear Medium Density

#### Product Description

*Icorene* 3940 is a linear medium density polyethylene developed for rotational molding applications. The resin is fully UV stabilized and suitable for general purpose applications. It has a good balance of properties such as toughness and stiffness.

<b>Processing Method</b>	Rotomolding
<b>Attribute</b>	Ablation Resistant; Good Processability; Good Stiffness; Good Toughness; UV Resistant
<b>Forms</b>	Pellets; Powder
<b>Appearance</b>	Black; Colors Available; Natural Color
<b>Additive</b>	UV Stabilizer
<b>Application</b>	Containers; General Purpose; Outdoor Applications; Pallets; Tanks

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	3.4 to 4.0	g/10 min	ASTM D1238
Density	0.939 to 0.941	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield, (50 mm/min)	20.0	MPa	ASTM D638
Environmental Stress Crack Resistance			
(10% Igepal)	50.0	hr	ASTM D1693
(100% Igepal)	>1000	hr	ASTM D1693
Flexural Modulus, (1.3 mm/min)	834	MPa	ASTM D790
<b>Impact</b>			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	77	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	>258	J	ARM
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	40.6	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	62	°C	ASTM D648