

## Technical Data Sheet

### *Icorene* 1210 GRN 6800

Linear Low Density Polyethylene

#### Product Description

*Icorene* 1210 is a hexene linear low density polyethylene specifically developed for use in rotational moulding. This grade is designed for applications requiring toughness and flexibility and is suitable for use in many applications such as marine buoys, street furniture, or intermediate bulk containers (IBCs).

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

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	3.3	g/10 min	ASTM D1238
Density	0.926	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield	14.0	MPa	ISO 527
Environmental Stress Crack Resistance, (10% Igepal, 50 °C)	>1000	hr	ASTM D1693
Flexural Modulus, (23 °C)	500	MPa	ISO 178
Tensile Elongation at Break	>1300	%	ASTM D638
<b>Impact</b>			
Drop Impact Resistance, (-20 °C, Internal Method)	>200	J/cm	ASTM D4226
<b>Hardness</b>			
Shore Hardness, (Shore D)	52		ISO 868
<b>Thermal</b>			
Vicat Softening Temperature, (A (10N))	107	°C	ISO 306
Deflection Temperature Under Load Annealed (0.45 MPa)	54	°C	ISO 75-2/B
Melting Temperature	125	°C	ASTM D2117