

## Technical Data Sheet

***Icorene* 1505 GRY 7796**

Polyethylene, Crosslinked

**Product Description**

*Icorene* 1505 is a crosslinkable natural high density polyethylene specifically developed for rotational moulding. This grade is particularly suitable for use in applications requiring exceptional impact resistance at low temperature, toughness and excellent ESCR such as fuel tanks. The specially developed cross linking system used has lower odor than typical materials of this type and allows for perfect moulding of the part - free of pinholes.

<b>Processing Method</b>	Rotomolding
<b>Attribute</b>	Crosslinkable; Good Processability; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; UV Resistant
<b>Forms</b>	Powder
<b>Appearance</b>	Natural Color; Unspecified Color
<b>Additive</b>	UV Stabilizer
<b>Application</b>	Industrial Containers

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density	0.943	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield	21	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Condition B, Rotational Molded, F50, 10% Igepal, 50 °C)	>1000	hr	ASTM D1693
(Condition B, Rotational Molded, F50, 100% Igepal, 50 °C)	>1000	hr	ASTM D1693
Flexural Modulus	700	MPa	ASTM D790
Tensile Elongation at Break	600	%	ASTM D638
<b>Impact</b>			
Drop Impact Resistance			
(-20 °C, Internal Method)	>255	J/cm	ASTM D4226
(-40 °C, Rotomoulding)	>320	J/cm	ARM
<b>Hardness</b>			
Durometer Hardness, (Shore D)	65		ASTM D2240
<b>Thermal</b>			
Vicat Softening Temperature, (A (10N), 50 °C/h)	127	°C	ISO 306
Deflection Temperature Under Load Unannealed (1.80 MPa)	43	°C	ISO 75-2/A