

## Technical Data Sheet

### *Icorene* 1741 NAT 0000

High Density Polyethylene

#### Product Description

*Icorene* 1741 is a metallocene high density polyethylene specifically developed for use in rotational moulding. This grade is designed for use in many different rotomoulding applications. It has good overall mouldability, high rigidity and very good toughness.

<b>Processing Method</b>	Rotomolding
<b>Attribute</b>	Good Impact Resistance; Good Moldability; Good Toughness; High Rigidity; UV Resistant
<b>Forms</b>	Powder
<b>Appearance</b>	Natural Color; Unspecified Color
<b>Additive</b>	UV Stabilizer
<b>Application</b>	Tanks; Thick-walled Parts

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	4.0	g/10 min	ASTM D1238
Density	0.94	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield	21.0	MPa	ISO 527-2
Environmental Stress Crack Resistance			
(10% Igepal, 50 °C)	300	hr	ASTM D1693
(100% Igepal, 50 °C)	>1000	hr	ASTM D1693
Flexural Modulus	800	MPa	ASTM D790
Tensile Elongation at Break	800	%	ISO 527-2
Tensile Stress at Break	21	MPa	ISO 527-2
<b>Impact</b>			
Charpy Impact Strength - Unnotched	>150	kJ/m <sup>2</sup>	ISO 179
Drop Impact Resistance, (-20 °C)	210	J/cm	ASTM D4226
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (0.45 MPa)	65	°C	ISO 75-2/B
Melting Temperature	126	°C	ISO 11357-3

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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