

## Technical Data Sheet

**Iceorene 3940 GRY 7840**

High Density Polyethylene

**Product Description**

*Iceorene 3940* is a high density polyethylene 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 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; Tanks

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	0.939	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield, (50 mm/min, 23 °C, 3.20 mm)	19.0	MPa	ISO 527-1
Tensile Strength at Break, (50 mm/min, 23 °C, 3.20 mm)	20.0	MPa	ISO 527-1
Environmental Stress Crack Resistance, (100% Igepal, 50 °C)	>1000	hr	ASTM D1693
Flexural Modulus	730	MPa	ISO 178
Tensile Elongation at Break, (50 mm/min, 23 °C, 3.20 mm)	>280	%	ISO 527-1
<b>Impact</b>			
Drop Impact Resistance, (-20 °C, Internal Method)	170	J/cm	ASTM D4226
<b>Hardness</b>			
Durometer Hardness, (Shore D)	60		ISO 868
<b>Thermal</b>			
Vicat Softening Temperature, (A (10N))	118	°C	ISO 306
Melting Temperature	128	°C	DSC

## 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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