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Technical Data Sheet

Icorene 3940 BUE 5123

High Density Polyethylene

LYB LyondellBasell

Product Description

Icorene 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.

Processing Method Rotomolding

Attribute Good Processability; Good Stiffness; Good Toughness; UV Resistant

Forms Powder

Appearance Natural Color; Unspecified Color

Additive UV Stabilizer

Application Containers; General Purpose; Tanks

Torrigal Decoration	Nominal	l lada	To ak Milastia a d
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4.0	g/10 min	ASTM D1238
Density	0.939	g/cm³	ASTM D1505
Mechanical			
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
Impact			
Drop Impact Resistance, (-20 °C, Internal Method)	170	J/cm	ASTM D4226
Hardness			
Durometer Hardness, (Shore D)	60		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N))	118	°C	ISO 306
Melting Temperature	128	°C	DSC

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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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