

Technical Data Sheet

Icorene 1440 BUE 5100

High Density Polyethylene



Product Description

Icorene 1440 is a UV stabilised hexene high density polyethylene specifically developed for use in rotational moulding. This grade is typically used by customers to manufacture large water, fuel or chemical tanks and also underground infrastructure parts. *Icorene* 1440 has good overall mouldability, extremely high ESCR and impact strength (especially at low temperatures). This grade is designed to have improved resistance against the harmful effect of biodiesel fuel. It is not intended for use in medical and pharmaceutical applications.

Processing Method Rotomolding

Attribute Good Moldability; Good Toughness; High ESCR (Environmental Stress Cracking

Resistance); High Rigidity; Low Temperature Impact Resistance; UV Resistant

Forms Powder

Appearance Black; Natural Color; Unspecified Color

Additive Antioxidant; UV Stabilizer
Application Agricultural Tanks; Tanks

Nominal		
Value	Units	Test Method
4.0	g/10 min	ISO 1133
0.940	g/cm³	ISO 1183
19.0	MPa	ISO 527-1
>10000	hr	ASTM D1693
>450	%	ISO 527-1
9.0	%	ISO 527-1
750	MPa	ISO 527
>75	J	ARM
120	kJ/m²	ISO 8256
265	kJ/m²	ISO 8256
58		ISO 868
114	°C	ISO 306
59	°C	ISO 75-2/B
127	°C	DSC
	Value	Value Units 4.0 g/10 min 0.940 g/cm³ 19.0 MPa >10000 hr >450 % 9.0 % 750 MPa >75 J 120 kJ/m² 265 kJ/m² 58 114 °C 59 °C

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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