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.

Regulatory Status

For regulatory compliance information, see *Icorene* 1741 NAT 0000 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Europe
Processing Method	Rotomolding
Attribute	Good Impact Resistance; Good Moldability; Good Toughness; High Rigidity; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Tanks; Thick-walled Parts

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4.0	g/10 min	ASTM D1238
Density	0.94	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield	21.0	MPa	ISO 527-2
Flexural Modulus	800	MPa	ASTM D790
Environmental Stress Crack Resistance			
(10% Igepal, 50 °C)	300	hr	ASTM D1693
(100% Igepal, 50 °C)	>1000	hr	ASTM D1693
Tensile Elongation at Break	800	%	ISO 527-2
Tensile Stress at Break	21	MPa	ISO 527-2
Impact			
Charpy Impact Strength - Unnotched	>150	kJ/m²	ISO 179
Drop Impact Resistance, (-20 °C)	210	J/cm	ASTM D4226
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	65	°C	ISO 75-2/B
Melting Temperature	126	°C	ISO 11357-3

Manufacturer website: https://www.lyondellbasell.com/en/

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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