Technical Data Sheet

Icorene 1314 BUE 5747

High Density Polyethylene

Product Description

Icorene 1314 is a high performance hexene high density polyethylene specifically developed for use in rotational moulding.This grade has been designed for applications requiring good stiffness and toughness.This material can be used in many different rotomoulding applications and for food contact applications.*Icorene* 1314 Black 9001 is TÜV approved, protocolnr 175XS0122-00.*Icorene* 1314 Natural and Black are DiBt approved Z40-25-519 and WRAS approved: 1507503 & 1202543

Regulatory Status

For regulatory compliance information, see *Icorene* 1314 BUE 5747 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Europe; Latin America
Processing Method	Rotomolding
Attribute	Good Impact Resistance; Good Stiffness; Good Toughness; Hexene Comonomer; High ESCR (Environmental Stress Cracking Resistance); UV Resistant
Forms	Powder
Appearance	Black; Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Fuel Tanks; Septic Tanks; Tanks; Tanks, Industrial

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	3.0	g/10 min	ASTM D1238
Density	0.939	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (23 °C, Type I)	20.0	MPa	ISO 527
Flexural Modulus, (23 °C)	800	MPa	ISO 178
Environmental Stress Crack Resistance			
(Condition B, F50, 10% Igepal, 50 °C)	>300	hr	ASTM D1693
(Condition B, F50, 100% Igepal, 50 °C)	>1000	hr	ASTM D1693
Tensile Elongation at Break, (23 °C)	>1000	%	ISO 527
Impact			
Drop Impact Resistance			
(-40 °C, Rotomoulding)	>210	J/cm	ARM
(-20 °C, Rotomoulding, Internal Method)	>200	J/cm	ASTM D4226
Hardness			
Durometer Hardness, (Shore D)	62		ASTM D2240
Thermal			
Vicat Softening Temperature, (A (10N))	117	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	67	°C	ISO 75-2/B
Melting Temperature	127	°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/.

© LyondellBasell Industries Holdings, B.V. 2026

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.