

Technical Data Sheet

Icorene 1505 GRY 7792



Polyethylene, Crosslinked

Product Description

Icorene 1505 is a crosslinkable natural high density polyethylene specifically developed for rotational moulding. This grade is particularly suitable for use in applications requiring exceptional impact resistance at low temperature, toughness and excellent ESCR such as fuel tanks. The specially developed cross linking system used has lower odor than typical materials of this type and allows for perfect moulding of the part - free of pinholes.

Regulatory Status

For regulatory compliance information, see *Icorene* 1505 GRY 7792 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Europe
Processing Method	Rotomolding
Attribute	Crosslinkable; Good Processability; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Industrial Containers

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	0.943	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield	21	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Condition B, Rotational Molded, F50, 10% Igepal, 50 °C)	>1000	hr	ASTM D1693
(Condition B, Rotational Molded, F50, 100% Igepal, 50 °C)	>1000	hr	ASTM D1693
Flexural Modulus	700	MPa	ASTM D790
Tensile Elongation at Break	600	%	ASTM D638
Impact			
Drop Impact Resistance			
(-20 °C, Internal Method)	>255	J/cm	ASTM D4226
(-40 °C, Rotomoulding)	>320	J/cm	ARM
Hardness			
Durometer Hardness, (Shore D)	65		ASTM D2240
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	127	°C	ISO 306
Deflection Temperature Under Load Unannealed (1.80 MPa)	43	°C	ISO 75-2/A

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. 2018

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.