

Technical Data Sheet

Icorene RW POLYETHYLENE LP 477-01



High Density Polyethylene

Product Description

LP 477-01 is a high-density polyethylene possessing excellent impact strength for blow molded bleach and detergent bottles, thermoformed industrial parts, tote boxes, trays, liners and pharmaceutical packages.

Regulatory Status

For regulatory compliance information, see RW POLYETHYLENE LP 477-01 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Asia-Pacific; North America
Processing Method	Blow Molding; Extrusion
Attribute	High Impact Resistance
Forms	Pellets
Application	Bottles; Industrial Applications; Liners; Pharmaceutical Packaging; Tool/Tote Box

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.30	g/10 min	ASTM D1238
Density - Specific Gravity	0.955	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield, (51 mm/min)	22.1	MPa	ASTM D638
Environmental Stress Crack Resistance, (Condition A, F50)	60.0	hr	ASTM D1693
Flexural Modulus	827	MPa	ASTM D790
Tensile Elongation at Break, (51 mm/min)	400	%	ASTM D638
Impact			
Ductile/Brittle Transition Temperature	-118	°C	ASTM D746

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.