

Technical Data Sheet

lcorene 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.

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/>.

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