

LINATHENE® LL405

Linear Low Density Polyethylene

USI Corporation

Message:

LINATHENE LL405 is a linear low density polyethylene (LLDPE) developed for rotational molding.

LINATHENE LL405 has excellent environmental stress crack resistance, chemical inertness, low temperature impact strength, rigidity, toughness combined with good moldability and make this resin especially suitable for rotational molding.

LINATHENE LL405 can be ground into powders then molded into large parts, such as storage tanks for chemicals or water, tool boxes, water drums, etc

General Information

Features	Good Moldability
	Good Toughness
	High ESCR (Stress Crack Resist.)
	High Rigidity
	Low Density
	Low Temperature Impact Resistance

Uses	Potable Water Applications
	Tanks
	Tool/Tote Box

Processing Method	Rotational Molding
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Physical	Nominal Value	Unit	Test Method
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Density	0.936	g/cm ³	ASTM D1505
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Melt Mass-Flow Rate (MFR)	5.3	g/10 min	ASTM D1238
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Strength			ASTM D638
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Yield, Compression Molded	18.6	MPa	
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Break, Compression Molded	19.6	MPa	
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Tensile Elongation (Break, Compression Molded)	900	%	ASTM D638
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Thermal	Nominal Value	Unit	Test Method
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Brittleness Temperature	< -76.0	°C	ASTM D746
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Vicat Softening Temperature	115	°C	ASTM D1525
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Peak Melting Temperature	125	°C	ASTM D3418
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