

Osterlene® LD6521

Low Density Polyethylene

Osterman & Company

Message:

LD6521 is a general purpose LDPE grade resin. It has good toughness and stiffness and is easy to process.

Applications for LD6521 include domestic housewares, food containers, rigid medium sized moldings, film applications, non-abrasive packaging applications.

Osterlene LD6521 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply. Contact your Osterman sales representative for more information.

General Information			
Features	Rigid, good		
	Workability, good		
	Good toughness		
	General		
	Medium hardness		
Uses	Packaging		
	Films		
	Household goods		
	Food container		
	General		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	221	MPa	ASTM D638
Tensile Strength (Break)	10.3	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	340	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD	207	MPa	ASTM D882
TD	255	MPa	ASTM D882
Tensile Strength			ASTM D882


MD: Fracture	19.8	MPa	ASTM D882
TD: Fracture	15.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	320	%	ASTM D882
TD: Fracture	380	%	ASTM D882
Dart Drop Impact	50	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ¹	-43.0	°C	ASTM D746
Vicat Softening Temperature	93.9	°C	ASTM D1525
NOTE			
1.	F50		

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