

Petrothene® LT493501X01

High Density Polyethylene
LyondellBasell Industries

Message:

Petrothene LT493501X01 is a high density copolymer natural resin used by customers for conduit applications. LT493501X01 offers an excellent balance of stiffness, toughness and ease of processing. Conduit made with this resin is used with fiber optic cable, electrical cable and telecommunications cable. LT493501X01 meets the material requirements for polyethylene conduit as per ASTM F2160 and also meets the requirements of ASTM D3350 cell classification 435530A.

General Information			
Features	Rigid, good Copolymer Workability, good Good toughness		
Uses	Catheter		
Agency Ratings	ASTM D 3350 PE445530A ASTM F 2160		
Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.34	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
10% Igepal, F10	> 96.0	hr	ASTM D1693B
100% Igepal, F50	> 1000	hr	ASTM D1693B
100% Igepal, F20	> 192	hr	ASTM D1693C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.1	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus - 2% Secant	907	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	69.9	J/cm	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	61.0	°C	ASTM D648

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