

LT493501X01

High Density Polyethylene
Conduit Grade

Melt Index: 0.34 Density: 0.948

Applications

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.

Processing Techniques

Specific recommendations for processing LT493501X01 can only be made when the processing conditions, equipment and end use are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.34	g/10 min	D1238
Density	0.948	g/cm ³	D1505
Tensile Strength @ Yield	3500	psi	D638
Elongation @ Break	>600	%	D638
Flexural Modulus (2% Secant)	131,600	psi	D790
Tensile Impact	131	ft-lb/in	D1822
Heat Deflection Temperature @ 66 psi	61	°C	D648
Hardness, Shore D	60		D2240
ESCR, Condition B (10% Igepal®), F ₁₀	>96	hr	D1693
ESCR, Condition C (100% Igepal®), F ₂₀	>192	hr	D1693
ESCR, Condition B (100% Igepal®), F ₅₀	>1,000	hr	D1693

® Igepal is a registered trademark of Rhône-Poulenc Co., Inc.

These are typical values and not to be construed as specification limits.