Alathon

L4930TC

High Density Polyethylene
Conduit Grade
Melt Index 0.30 Density 0.949

Applications

Alathon L4930TC is a bimodal high density polyethylene copolymer natural resin used by customers for telecommunications conduits. L4930TC offers an excellent balance of stiffness, toughness and ease of processing. Conduits made with this resin are used with fiber optic cable, electrical cable and telecommunications cable. L4930TC meets the material requirements for polyethylene conduit as per ASTM F2160 and also meets the requirements of ASTM D3350 cell classification 435540A.

Processing Techniques

Specific recommendations for processing L4930TC can only be made when the processing conditions, equipment and end use are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Flow Rates			D1238
@ 190 °C & 2.16 kg	0.30	g/10 min	
@ 190 °C & 5 kg	1.1	g/10 min	
@ 190 °C & 21.6 kg	26	g/10 min	
Density	0.949	g/cc	D1505
Tensile Strength @ Yield	3,600	psi	D638
Elongation @ Break	>600	%	D638
Flexural Modulus (2% Secant)	136,000	psi	D790
Tensile Impact	277	ft-lb/in	D1822
Low Temperature Brittleness, F_{50}	<-75	°C	D746
Hardness, Shore D	63		D2240
ESCR, Condition B (100% Igepal®), F_{50}	>1000	hrs	D1693
ESCR, Condition B (10% Igepal®), F_{50}	>1000	hrs	D1693
ESCR, Condition C (100% Igepal®), F_{20}	>600	hrs	D1693

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