

Alathon® L4930TC

High Density Polyethylene
LyondellBasell Industries

Message:

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.

General Information			
Features	Rigid, good		
	Workability, good		
	Good toughness		
	Bimodal molecular weight distribution		
Uses	Catheter		
	Wire and cable applications		
	Optical fiber cable		
Agency Ratings	ASTM D 3350 PE435540A		
	ASTM F 2160		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.30	g/10 min	ASTM D1238
190°C/21.6 kg	26	g/10 min	ASTM D1238
190°C/5.0 kg	1.1	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
10% Igepal, F50	> 1000	hr	ASTM D1693B
100% Igepal, F50	> 1000	hr	ASTM D1693B
100% Igepal, F20	> 600	hr	ASTM D1693C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus - 2% Secant	938	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	148	J/cm	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746

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Recommended distributors for this material

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