

Alathon

L5040TC

High Density Polyethylene
Conduit Grade

Melt Index 0.39 Density 0.949



Applications

Alathon L5040TC is a bimodal high density polyethylene copolymer natural resin used by customers for telecommunications conduits. L5040TC 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. L5040TC meets the material requirements for polyethylene conduit as per ASTM F2160 and also meets the requirements of ASTM D3350 cell classification 435580A.

Processing Techniques

Specific recommendations for processing L5040TC 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	0.39	g/10 min	D1238
Density	0.949	g/cc	D1505
Tensile Strength @ Yield	3,600	psi	D638
Elongation @ Break	>600	%	D638
Flexural Modulus (2% Secant)	138,000	psi	D790
Tensile Impact	188	ft-lb/in	D1822
Low Temperature Brittleness, F ₅₀	<-75	°C	D746
Heat Deflection Temperature @ 66 psi	76	°C	D648
Hardness, Shore D	63		D2240
ESCR, Condition B (100% Igepal®), F ₅₀	>1,000	hrs	D1693
ESCR, Condition B (10% Igepal®), F ₁₀	>96	hrs	D1693

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

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