

Alathon® L5040TC

High Density Polyethylene
LyondellBasell Industries

Message:

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.

General Information			
Features	Copolymer		
	Good Processability		
	Good Stiffness		
	Good Toughness		
Uses	Conduit		
	Telecommunications		
	Wire & Cable Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.39	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal, F10	> 96.0	hr	
100% Igepal, F50	> 1000	hr	
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	951	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	100	J/cm	ASTM D1822
Cell Classification	435580A		ASTM D3350
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

