

Alathon® 9305TC

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON 9305TC is a high molecular weight high density copolymer with a broad bimodal molecular weight distribution. This resin exhibits high density and stiffness and is designed for grooved feed and smooth bore equipment. Typical applications for wire and cable include cable in conduit.

General Information	
Features	Rigidity, high
	High molecular weight
	Compliance of Food Exposure
	Bimodal molecular weight distribution
Uses	Catheter
	Wire and cable applications
Agency Ratings	ASTM D 1248, III, Class A, Cat. 5, Grade E10
	FDA 21 CFR 177.1520
	FED L-P-390C, Type II, Class H, Category 5, Grade 5

Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.075	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F50)	> 200	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	23.4	MPa	ASTM D638
Fracture	36.6	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Flexural Modulus - 1% Secant	1000	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Thermal Crack Resistance - F50	> 3.4	month	ASTM D2951
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.6E+17	ohms · cm	ASTM D257
Dielectric Constant (1 MHz)	2.33		ASTM D1531

Dissipation Factor (1 MHz)	7.0E-5	ASTM D1531
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	300 - 325	°C
Cylinder Zone 2 Temp.	350 - 400	°C
Cylinder Zone 3 Temp.	400 - 450	°C
Cylinder Zone 4 Temp.	475 - 500	°C
Cylinder Zone 5 Temp.	475 - 500	°C
Adapter Temperature	475 - 500	°C
Melt Temperature	475 - 500	°C
Die Temperature	475 - 500	°C

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