

Alathon® M5370WC

High Density Polyethylene Copolymer

LyondellBasell Industries

Message:

ALATHON M 5370WC is a natural, high density, polyethylene copolymer resin with a narrow molecular weight distribution formulated for use as primary insulation for coaxial and control cable applications including gas-injected or chemically expanded insulation. M 5370WC provides high impact strength and stress crack resistance, excellent color, low odor and good processability.

General Information			
Features	Copolymer Good Processability High ESCR (Stress Crack Resist.) High Impact Resistance Low to No Odor Narrow Molecular Weight Distribution		
Uses	Insulation Wire & Cable Applications		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 3, Grade E11		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.3	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	25.5	MPa	
Break	24.1	MPa	
Tensile Elongation (Break)	1700	%	ASTM D638
Flexural Modulus - 1% Secant	1280	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+17	ohms · cm	ASTM D257
Dielectric Strength	28	kV/mm	ASTM D149

Dielectric Constant (1 MHz)	2.34	ASTM D1531
Dissipation Factor		ASTM D1531
1 MHz	2.0E-5	
2.00 GHz	2.0E-5	

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	149 to 163	°C
Cylinder Zone 2 Temp.	177 to 204	°C
Cylinder Zone 3 Temp.	204 to 232	°C
Cylinder Zone 4 Temp.	246 to 260	°C
Adapter Temperature	246 to 260	°C
Melt Temperature	246 to 260	°C
Die Temperature	246 to 260	°C

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