

Alathon® M6080WC

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON M6080WC is a natural high density polyethylene homopolymer 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. This resin provides enhanced processability and stiffness and exhibits excellent color, low odor and good processing stability.

General Information			
Features	Good Processability		
	Good Processing Stability		
	Good Stiffness		
	Homopolymer		
	Low to No Odor		
	Narrow Molecular Weight Distribution		
Uses	Electronic Insulation		
	Wire & Cable Applications		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 3, Grade E11		
	MIL L-P-390C, Type II, Class H, Grades 4, Cat. 3		
Appearance	Natural Color		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	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	26.9	MPa	
Break	21.4	MPa	
Tensile Elongation (Break)	1900	%	ASTM D638
Flexural Modulus - 1% Secant	1320	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	130	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+17	ohms · cm	ASTM D257

Dielectric Strength	28	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.36		ASTM D1531
Dissipation Factor (1 MHz)	3.0E-5		ASTM D1531
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	
Cylinder Zone 5 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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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

