

LyondellBasell Alathon[®] M6080WC High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

Material Notes:

ApplicationsALATHON M 6080WC is a natural, high density, polyethylene homopolymer 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. This resin provides enhanced processability and stiffness and exhibits excellent color, low odor and good processing stability.
Processing TechniquesM 6080WC, like other thermoplastic polyolefin resins, can be extruded as wire and cable insulation using a conventional extruder. Below are suggested extrusion conditions for M 6080WC. These conditions are intended as general guidelines only and are not optimum values, since manufacturing conditions such as extruder type and size affect the processing of thermoplastic resins.This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-M6080WC-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ASTM D1505
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength at Break	21.4 MPa	3100 psi	ASTM D638
Tensile Strength, Yield	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	1900 %	1900 %	ASTM D638
Flexural Modulus	1.32 GPa	192 ksi	1% Secant; ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 Å°C	266 Å°F	ASTM D1525
Brittleness Temperature	<= -76.0 Å°C	<= -105 Å°F	F₅₀; ASTM D746

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.00e+17 ohm-cm	3.00e+17 ohm-cm	ASTM D257
Dielectric Constant	2.36	2.36	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	27.6 kV/mm	700 kV/in	DC; ASTM D149
	0.000030	0.000030	

Designation Factor Electrical Properties	Metric @ Frequency 1e+6 Hz	English @ Frequency 1e+6 Hz	ASTM D1531 Comments
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Processing Properties	Metric	English	Comments
Feed Temperature	149 - 163 Â°C	300 - 325 Â°F	
Zone 2	177 - 204 Â°C	350 - 400 Â°F	
Zone 3	204 - 232 Â°C	400 - 450 Â°F	
Zone 4-x	246 - 260 Â°C	475 - 500 Â°F	
Adapter Temperature	246 - 260 Â°C	475 - 500 Â°F	
Die Temperature	246 - 260 Â°C	475 - 500 Â°F	
Melt Temperature	246 - 260 Â°C	475 - 500 Â°F	

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