

Borealis Borstar® ME3441 Yellow Medium Density Polyethylene for Natural Gas Pipes

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Extruded

Material Notes:

Borstar ME3441 is a yellow, bimodal, cadmium free, medium density polyethylene compound classified as a MRS 8.0 material (PE80) produced with the advanced Borstar technology. It includes a combination of pigments and stabilizers to ensure excellent long-term thermal stability and UV-resistance and resistance to gas condensate. It also shows excellent resistance to rapid crack propagation and slow crack growth. Borstar ME3441 is recommended for pressure pipe systems in the application fields of rapid crack propagation and slow crack growth. Thanks to the structure, it gives outstanding extrudability, compared to conventional PE80 products. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-ME3441-Yellow-Medium-Density-Polyethylene-for-Natural-Gas-Pipes.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ISO 1183
Environmental Stress Crack Resistance	>= 2000 hour @Temperature 80.0 °C	>= 2000 hour @Temperature 176 °F	At 8 bar; ISO 13479
Melt Flow	0.80 g/10 min @Load 5.00 kg, Temperature 190 °C	0.80 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.00 MPa	2755 psi	At 50 mm/min; ISO 527-2
Elongation at Break	>= 600 %	>= 600 %	ISO 527-2
Tensile Modulus	0.800 GPa	116 ksi	At 1 mm/min; ISO 527-2

Processing Properties	Metric	English	Comments
Front Barrel Temperature	180 - 210 °C	356 - 410 °F	
Die Temperature	200 - 210 °C	392 - 410 °F	
Melt Temperature	200 - 220 °C	392 - 428 °F	
Head Temperature	200 - 210 °C	392 - 410 °F	

Descriptive Properties	Value	Comments
Resistance to Rapid Crack Propagation, BAR	7	ISO 13477, Pc at 0°C, S4 / pipe size 250 mm SDR 11

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