

Ineos K38-20-160 Polyethylene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

K38-20-160 is a medium density polyethylene copolymer containing an organic yellow pigment system, designed specifically for the extrusion of natural gas pipe. It exhibits excellent long term stress life and slow crack resistance. K38-20-160 is the North American equivalent to ELTEX TUB 172 Yellow produced by INEOS Olefins & Polymers Europe. This material is certified to CSA Standard B137.4-09 and is recognized by the Plastics Pipe Institute as having a PE 2708 and PE 80 rating. The natural version of this resin is available as K38-20-138.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-K38-20-160-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	5000 hour	5000 hour	> 5000 hrs.; ASTM D1693
Oxidative Induction Time (OIT)	20 min	20 min	@ 210 C > 20 Min; ASTM D 3895
Melt Flow	0.20 g/10 min	0.20 g/10 min	@ 190 C/2160g; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength at Break	31.0 MPa	4500 psi	2 in/min; ASTM D638
Tensile Strength, Yield	19.3 MPa	2800 psi	2 in/min; ASTM D638
Elongation at Break	800 %	800 %	>800% 2 in/min; ASTM D638
Flexural Modulus	0.690 GPa	100 ksi	ASTM D790
Izod Impact, Notched (ISO)	21.0 kJ/m ²	10.0 ft-lb/in ²	ASTM D256
Hydrostatic Design Basis	6.89 MPa	1000 psi	@ 60 C; ASTM D2837
	8.62 MPa	1250 psi	@ 23 C; ASTM D2837

Thermal Properties	Metric	English	Comments
Vicat Softening Point	120 Â°C	248 Â°F	ASTM D1525
Brittleness Temperature	-118 Â°C	-180 Â°F	ASTM D746

Descriptive Properties	Value	Comments
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Process Descriptive Properties	Pipe Extrusion Value	Comments
Region	US & Canada	Bamberger Polymers Distribution

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