Ineos K38-20-188 HDPE

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

Material Notes:

K38-20-188 is a natural, UV stabilized, medium density polyethylene resin designed specifically for use with an approved Ineos North America yellow masterbatch to produce pipe or tubing for natural gas distribution. The resulting formulation, known as K38-20X2091, is recognized by the Plastics Pipe Institute as having a PE 2708 (formerly PE 2406) and PE 80 rating. It exhibits excellent long term stress life and outstanding environmental stress crack resistance.Cell Classification 234360D.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ineos-K38-20-188-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/inÂ³	Natural; ASTM D4883
Environmental Stress Crack Resistance	>= 5000 hour	>= 5000 hour	Condition B; 10%; ASTM D1693
	>= 5000 hour	>= 5000 hour	Condition C; ASTM D1693
	>= 5000 hour	>= 5000 hour	Pipe Ring; ASTM F1248
Melt Flow	0.20 g/10 min @Load 2.16 kg, Temperature 190 Â°C	0.20 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
PENT	>= 500 hour	>= 500 hour	Notch Tensile; ASTM F1473
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength, Ultimate	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 %	2 in/min; ASTM D638
Flexural Modulus	0.689 GPa	100 ksi	2% Secant - Method 1; ASTM D790
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	ASTM D256

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

Descriptive Properties	Value	Comments
Region	US & Canada	Bamberger Polymers Distribution

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