

Ineos K38-20X2091 HDPE

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

Material Notes:

K38-20X2091 is a yellow medium density polyethylene resin designed specifically for natural gas pipe extrusion. It exhibits excellent long term stress life and slow crack growth resistance. This material is certified to CSA Standard B137.4-05 and it is recognized by the Plastics Pipe Institute as having a PE 27089(formerly PE 2708) and PE 80 rating. The natural version of this resin is available as K38-20-188.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-K38-20X2091-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in ³	ASTM D 4883
Environmental Stress Crack Resistance	>= 5000 hour	>= 5000 hour	ASTM D 1693
	>= 5000 hour	>= 5000 hour	ASTM F 1248
	>= 5000 hour	>= 5000 hour	ASTM D 1693
Oxidative Induction Time (OIT)	>= 20 min	>= 20 min	
	@Temperature 210 Â°C	@Temperature 410 Â°F	
Melt Flow	0.20 g/10 min	0.20 g/10 min	@190c/2160g; ASTM D 1238
	0.85 g/10 min	0.85 g/10 min	@190c/5000g; ASTM D 1238

Mechanical Properties	Metric	English	Comments
PENT	>= 500 hour	>= 500 hour	ASTM F 1473
Hardness, Shore D	64	64	ASTM D 2240
Tensile Strength at Break	31.0 MPa	4500 psi	2 in/min (50 mm/min); ASTM D 638
Tensile Strength, Yield	19.3 MPa	2800 psi	2 in/min (50 mm/min); ASTM D638
Elongation at Break	>= 800 %	>= 800 %	2 in/min (50 mm/min); ASTM D 638
Flexural Modulus	0.690 GPa	100 ksi	ASTM D 790
Izod Impact, Notched	5.30 J/cm	9.93 ft-lb/in	ASTM D 256
Hydrostatic Design Basis	6.89 MPa	1000 psi	@60c; ASTM D 2837
	8.618 MPa	1250 psi	@23c; ASTM D 2837

Thermal Properties	Metric	English	Comments
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Vicat Softening Point Thermal Properties	120 Å°C Metric	248 Å°F English	ASTM D 1525 Comments
Brittleness Temperature	<= -118 Å°C	<= -180 Å°F	ASTM D 746

Descriptive Properties	Value	Comments
Process	Pipe Extrusion	

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