

K38-20-188

POLYETHYLENE COPOLYMER

TECHNICAL DATASHEET

Product Description

K38-20-188 is a natural UV-stabilized medium density PE grade designed for natural gas pipe and fittings. When blended with an approved INEOS yellow masterbatch, the resulting formulation¹ is listed in PPI TR4 as a PE2708 and PE80 material and meets the material requirements of ASTM D2513 and CSA B137.4.

Typical Properties²

Property	English Units	SI Units	ASTM Method
Resin			
Density		0.939 g/cc	D4883
Melt Index (190°C/2.16 kg)		0.20 g/10 min	D1238
Melt Index (190°C/21.6 kg)		20 g/10 min	D1238
Compression Molded Specimens			
Tensile Stress @ Yield	2,800 psi	19 MPa	D638
Tensile Elongation @ Break	>800 %	>800 %	D638
Flexural Modulus, 2% Secant Method	90,000 psi	621 MPa	D790A
Notch Tensile (PENT)	>500 hrs	>500 hrs	F1473
Brittleness Temperature	<-180 °F	<-118 °C	D746
Cell Classification	234373E ³	234375E ³	D3350
Pipe³			
Hydrostatic Design Basis (HDB) @ 23°C @ 60°C	1,250 psi 1,000 psi	8.6 MPa 6.9 MPa	D2837
Minimum Required Strength (MRS)	---	8 MPa	ISO 9080

¹ Under compound name K38-20-160

² Typical properties will vary and are not to be used for specifications.

³ Pipe extruded from blend of K38-20-188 with INEOS G38-20C-Y

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at www.ineos-op.com, or call + 1-800-527-5419.

Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Safety Data Sheet (SDS) contains the available product health and safety information for this material and can be found at www.ineos-op.com. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

The Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the SDS of the original material should not be used.

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