

INEOS HDPE K38-20-160

Medium Density Polyethylene
INEOS Olefins & Polymers USA

Message:

K38-20-160 is a yellow, UV-stabilized medium density polyethylene copolymer, containing an organic pigment system, designed specifically for natural gas pipe and fittings. Exhibiting excellent long term strength and slow crack growth resistance, K38-20-160 is listed by the Plastics Pipe Institute (in PPI TR-4) as a PE2708 and is certified to the material requirements of ASTM D2513 and CSA B137.4.

General Information			
Additive	Pigment		
	UV Stabilizer		
Features	Copolymer		
	Good Crack Resistance		
	Good UV Resistance		
	Medium Density		
Uses	Fittings		
	Natural Gas Distribution		
	Piping		
Agency Ratings	ASTM D 2513		
	CSA B137.4		
	EC 1907/2006 (REACH)		
	PPI PE-2708		
RoHS Compliance	Contact Manufacturer		
Appearance	Yellow		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	20	g/10 min	
190°C/5.0 kg	0.20	g/10 min	
Environmental Stress-Cracking Resistance			
10% Igepal, F50	> 5000	hr	ASTM D1693B
100% Igepal, F50	> 5000	hr	ASTM D1693C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638

Yield	19.3	MPa	
Break	32.6	MPa	
Tensile Elongation ²			ASTM D638
Yield	12	%	
Break	> 800	%	
Flexural Modulus - 2% Secant	621	MPa	ASTM D790A
Hydrostatic Design Basis			ASTM D2837
23°C	8.62	MPa	
60°C	6.89	MPa	
Oxidation Induction Time (210°C)	> 20	min	ASTM D3895
Thermal Stability	> 240	°C	ASTM D3350
Cell Classification	234373E		ASTM D3350
PENT - Notch Tensile	> 500	hr	ASTM F1473
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	320	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	31.5	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -118	°C	ASTM D746
Vicat Softening Temperature	120	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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