INEOS HDPE K38-20-188

Medium Density Polyethylene INEOS Olefins & Polymers USA

Message:

K38-20-188 is a natural, UV-stabilized medium density polyethylene pipe and tubing resin designed for natural gas distribution. When blended with an approved INEOS yellow masterbatch, the resulting formulation, known as K38-20-160, is recognized by the Plastics Pipe Institute as a PE2708 resin which exhibits excellent long term strength and outstanding environmental stress crack resistance and is certified to the material requirements of ASTM D2513 and CSA B137.4.

General Information					
Additive	UV Stabilizer				
Features	Copolymer				
	Good UV Resistance				
	High ESCR (Stress Crack Resist.)				
	Medium Density				
Uses	Natural Gas Distribution				
	Piping				
	Tubing				
Agency Ratings	ASTM D 2513				
	CSA B137.4				
	EC 1907/2006 (REACH)				
RoHS Compliance	Contact Manufacturer				
Appearance	Natural Color				
Forms	Pellets				
Physical	Nominal Value	Unit	Test Method		
Density	0.940	g/cm³	ASTM D4883		
Melt Mass-Flow Rate (MFR)			ASTM D1238		
190°C/2.16 kg	0.20	g/10 min			
190°C/21.6 kg	20	g/10 min			
Environmental Stress-Cracking Resista	nce				
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	32.8	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	МРа	
60°C	6.89	MPa	
Oxidation Induction Time (210°C)	> 20	min	ASTM D3895
Thermal Stability	> 240	°C	ASTM D3350
Cell Classification	234370D		ASTM D3350
PENT - Notch Tensile	> 500	hr	ASTM F1473
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	370	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	37.0	kJ/m²	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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