

INEOS HDPE K44-15-186

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

K44-15-186 is a blue high-density polyethylene copolymer designed specifically for extrusion of pipe by blending K44-15-122 natural resin with G38-70C BLU II concentrate or an approved equivalent. It has NSF Standard 14 certification and complies with ANSI/NSF Standard 61 health effects requirements and is recognized by the Plastic Pipe Institute as having a PE 3608 (formerly PE 3408) rating.

General Information			
Features	Copolymer		
	High Density		
Uses	Piping		
Agency Ratings	NSF 14		
	NSF 61		
	PPI PE-3408		
RoHS Compliance	Contact Manufacturer		
Appearance	Blue		
Forms	Pellets		
Processing Method	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.944	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	13	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
--	> 2000	hr	ASTM D1693B
--	> 5000	hr	ASTM D1693C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	22.8	MPa	
Break	31.0	MPa	
Tensile Elongation ² (Break)	> 800	%	ASTM D638
Flexural Modulus - 2% Secant ³	827	MPa	ASTM D790
Hydrostatic Design Basis (23°C)	11.0	MPa	ASTM D2837
Cell Classification	345464E		ASTM D3350
PENT - Notch Tensile	> 30	hr	ASTM F1473

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-118	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525

NOTE

1. 51 mm/min
2. 51 mm/min
3. Method I (3 point load)

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