

Ineos K44-15-186 Polyethylene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

Material Notes:

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-K44-15-186-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	>= 2000 hour	>= 2000 hour	Condition B, 10%; ASTM D1693
	>= 5000 hour	>= 5000 hour	Condition C; ASTM D1693
Melt Flow	12.5 g/10 min	12.5 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 Â°C	@Load 47.6 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
PENT	>= 30 hour	>= 30 hour	Notched Tensile; ASTM F1473
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength at Break	31.0 MPa	4500 psi	2 in/min; ASTM D638
Tensile Strength, Yield	22.8 MPa	3300 psi	2 in/min; ASTM D638
Elongation at Break	>= 800 %	>= 800 %	2 in/min; ASTM D638
Flexural Modulus	0.827 GPa	120 ksi	2% Secant-Method 1; ASTM D790
Izod Impact, Notched	3.20 J/cm	6.00 ft-lb/in	ASTM D256
Hydrostatic Design Basis	11.0 MPa	1600 psi	ASTM D2837

Thermal Properties	Metric	English	Comments
Vicat Softening Point	126 Â°C	259 Â°F	ASTM D1525
Brittleness Temperature	<= -118 Â°C	<= -180 Â°F	ASTM D746

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