

Ineos K44-15-123 HDPE Copolymer with Carbon Black

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Carbon Black Filled

Material Notes:

Fortiflex® K44-15-123 is a black high density polyethylene copolymer designed specifically for extrusion of potable water, industrial, and mining pipe. It has NSF certification and is recognized by the Plastic Pipe Institute as having a PE 3408 rating. The natural version of this resin is available as Fortiflex® K44-15-122.2.5% Carbon Black Concentration

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-K44-15-123-HDPE-Copolymer-with-Carbon-Black.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	>= 5000 hour	>= 5000 hour	Condition C; same value for Pipe Ring ESCR; ASTM D 1693
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 190 °C	13 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638
Tensile Strength, Yield	22.8 MPa	3310 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Modulus	0.830 GPa	120 ksi	2% Secant-Method 1; ASTM D790
Izod Impact, Notched	3.20 J/cm	5.99 ft-lb/in	ASTM D256

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

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