

## Ineos K44-15-122 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

K44-15-122 is a natural high density polyethylene copolymer designed specifically for extrusion of pipe. It has NSF Standard 14 certification for potable water applications, complies with ANSI/NSF Standard 61 health effects requirements, and is recognized by the Plastic Pipe Institute as having a pipe material designation code of PE 3608 (formerly PE 3408). A pressure rated formulation is also produced when this product is extruded in combination with a Ineos approved black masterbatch. The resulting formulation known as K44-15-123 has NSF Standard 14 certification and complies with ANSI/NSF Standard 61 health effects requirements, is certified to CSA Standard B137.1-05 and B137.4-05, and is listed with the Plastic Pipe Institute as a PE 3608(formerly PE 3408) and PE 80 pipe material designation code.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-K44-15-122-HDPE.php](http://www.lookpolymers.com/polymer_ineos-K44-15-122-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in <sup>3</sup>	Natural; ASTM D4883
Environmental Stress Crack Resistance	>= 2000 hour	>= 2000 hour	Condition B; ASTM D1693
	>= 5000 hour	>= 5000 hour	Condition C; ASTM D1693
High Load Melt Index	12.5 g/10 min	12.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
PENT	>= 100 hour	>= 100 hour	Notch 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	3310 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	5.99 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

Descriptive Properties	Value	Comments
Process	Color Concentrate	
Region	US & Canada	Bamberger Polymers Distribution

## Contact Songhan Plastic Technology Co.,Ltd.

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