

## Ineos K44-06-122 HDPE

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

### Material Notes:

HDPE K44-06-122 is a natural high density polyethylene copolymer designed specifically for extrusion of potable water, industrial, and mining pipe. It is recognized by the Plastic Pipe Institute as having a pipe material designation code of PE 3408, NSF Standard 14 certification, and complies with ANSI/NSF Standard 61 health effects requirements. The hydrostatic design basis is 1600 psi at 23°C or 1000 psi at 60°C, based on ASTM test number D 2837. According to ASTM F 1473, the notch tensile (PENT) is greater than 100 hours. The cell classification is 345464A (ASTM D3350).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-K44-06-122-HDPE.php](http://www.lookpolymers.com/polymer_ineos-K44-06-122-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in <sup>3</sup>	ASTM D4883
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	Condition B, 100% Igepal, F50; ASTM D1693
Oxidative Induction Time (OIT)	>= 20 min @Temperature 210 Å°C	>= 20 min @Temperature 410 Å°F	ASTM D3895
High Load Melt Index	6.5 g/10 min @Load 21.6 kg, Temperature 190 Å°C	6.5 g/10 min @Load 47.6 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
PENT	>= 100 hour	>= 100 hour	Notch Tensile; ASTM F1473
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength, Ultimate	27.6 MPa	4000 psi	2 in/min.; ASTM D638
Tensile Strength, Yield	20.7 MPa	3000 psi	2 in/min.; ASTM D638
Elongation at Break	>= 700 %	>= 700 %	2 in/min.; ASTM D638
Elongation at Yield	11.2 %	11.2 %	2 in/min.; ASTM D638
Flexural Modulus	0.758 GPa	110 ksi	2% Secant-Method 1; ASTM D790
Izod Impact, Notched	6.00 J/cm	11.2 ft-lb/in	ASTM D256
Hydrostatic Design Basis	6.89 MPa	1000 psi	at 60Å°C; ASTM D2837
	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 D 746

Descriptive Properties	Value	Comments
Cell Classification	345464A	ASTM D3350
Process	Pipe Extrusion	
Region	US & Canada	Bamberger Polymers Distribution

## Contact Songhan Plastic Technology Co.,Ltd.

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