

Ineos K44-24-122 HDPE

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

Material Notes:

K44-24-122 is a high density polyethylene copolymer designed specifically for pipe coating and extrusion. It complies with the virgin polyethylene resin requirements in CZA Z245-21. Natural resin; some physical properties may be specific to the carbon black filled resin.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-K44-24-122-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	>= 5000 hour	>= 5000 hour	Condition C; ASTM D1693
Melt Flow	0.35 g/10 min @Load 2.16 kg, Temperature 190 °C	0.35 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
High Load Melt Index	30 g/10 min	30 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Ultimate	31.0 MPa	4500 psi	2 in/min.; ASTM D638
Tensile Strength, Yield	22.8 MPa	3310 psi	2 in/min (50 mm/min); ASTM D638
Elongation at Break	>= 800 %	>= 800 %	2 in/min (50 mm/min); ASTM D-638
Flexural Modulus	0.793 GPa	115 ksi	2% Secant-Method 1; ASTM D790
Izod Impact, Notched	5.30 J/cm	9.93 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	128 °C	262 °F	ASTM D1525
Brittleness Temperature	<= -118 °C	<= -180 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Pipe Extrusion	
Region	US & Canada	Bamberger Polymers Distribution

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