

Ineos TC46-25 HDPE

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

Material Notes:

TC46-25 is a natural high density polyethylene copolymer designed specifically for telecommunications ducting to meet or exceed the material requirements in ASTM F2160, UL 651B and MEMA TC-7. TC46-25 balances stiffness, ESCR and molecular weight to provide required toughness and crush strength without compromising processability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-TC46-25-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	>= 96 hour	>= 96 hour	Condition B, F20, 100% Igepal; ASTM D1693
	>= 192 hour	>= 192 hour	Condition C, F0, 100% Igepal; ASTM D1693
Oxidative Induction Time (OIT)	>= 20 min	>= 20 min	ASTM D3895 modified (excludes copper mesh), 200 ^o C
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 ^o C	0.30 g/10 min @Load 4.76 lb, Temperature 374 ^o F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Yield	23.4 MPa	3390 psi	2 in/min (50 mm/min); ASTM D-638
Elongation at Break	>= 800 %	>= 800 %	2 in/min (50 mm/min); ASTM D-638
Flexural Modulus	0.897 GPa	130 ksi	2% Secant-Method 1; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	69.0 ^o C	156 ^o F	ASTM D648
Brittleness Temperature	<= -118 ^o C	<= -180 ^o F	ASTM D746

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

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