INEOS
Olefins & Polymers USA

TC46-25

POLYETHYLENE COPOLYMER

TECHNICAL DATASHEET

Product Description

TC46-25 is a natural HDPE grade designed for the extrusion of telecommunications conduit meeting specifications ASTM F2160, UL 651A and NEMA TC-7. TC46-25's optimized property balance delivers excellent toughness and crush strength without compromising processability.

Typical Properties[1]

Property	English Units	SI Units	ASTM Method
Resin			
Density		0.948 g/cc	D4883
Melt Index (190°C/2.16 kg)		0.30 g/10 min	D1238
Melt Index (190°C/21.6 kg)		24 g/10 min	D1238
Compression Molded Specimens			
Tensile Stress @ Yield	3,400 psi	23 MPa	D638
Tensile Elongation @ Break	>600 %	>600 %	D638
Flexural Modulus, 2% Secant Method	130,000 psi	900 MPa	D790A
Notched Izod Impact Strength	3.6 ft-lb_f/in	190 J/m	D256
Vicat Softening Point	255 °F	124 °C	D1525
Deflection Temperature @ 66 psi (455 kPa)	156 °F	59 °C	D648
Brittleness Temperature	<-180 °F	<-118 °C	D746
ESCR, Condition B, 100% Igepal, F50	>1,000 hrs	>1,000 hrs	D1693
Cell Classification	435480A	435480A	D3350
UL Flammability Classification		HB	UL 94

[1] Typical properties will vary and are not to be used for specifications.

Contact us:
+1 800 338 0489
rcspolymers@ineos.com
www.ineos-op.com

Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at www.ineos-op.com, or call + 1-800-527-5419.

Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Safety Data Sheet (SDS) contains the available product health and safety information for this material and can be found at www.ineos-op.com. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

The Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the SDS of the original material should not be used.

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www.ineos-op.com

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