

INEOS HDPE TC46-25

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

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

General Information			
UL YellowCard	E31830-100062237		
Features	Copolymer		
	High Density		
Uses	Telecommunications		
Agency Ratings	ASTM F 2160		
	EC 1907/2006 (REACH)		
	NEMA TC-7		
	UL 651B		
RoHS Compliance	Contact Manufacturer		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.30	g/10 min	
190°C/21.6 kg	24	g/10 min	
Environmental Stress-Cracking Resistance (100% Igepal, F50)	> 1000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	20.7	MPa	
Break	27.6	MPa	
Tensile Elongation ²			ASTM D638
Yield	8.0	%	
Break	600	%	
Flexural Modulus - 2% Secant	896	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	190	J/m	ASTM D256

Notched Izod Impact (Area)	19.1	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	68.9	°C	ASTM D648
Brittleness Temperature	< -118	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Oxidation Induction Time (210°C)	20	min	ASTM D3895
Cell Classification	435430A		ASTM D3350
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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