

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 651A and NEMA TC-7. TC46-25 balances stiffness, ESCR and molecular weight to provide required toughness and crush strength without compromising processability.

Typical Properties¹

	Values		ASTM
	English Units	SI Units	Method
Resin	0		
Density	_	$0.948 \mathrm{g/cc}$	D4883
Melt Index 190 C/2.16 kg	_	0.30 g/10 min	D1238
Melt Index 190 C/21.6 kg	_	24.0 g/10 min	D1238
Compression Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	3,400 psi	23.4 MPa	
@ Break	4,700 psi	32.4 MPa	
Elongation (2 in/min)	•		D638
@ Yield	10.5%	10.5%	
@ Break	>600%	>600%	
Flexural Modulus			D790A
2% Secant Method	130,000 psi	897 MPa	
Notched Izod Impact Strength	3.6 ft-lbf/in	19.1 kJ/m^2	D256
Hardness		-	D2240
Shore D	68	68	
Vicat Softening Point	255 F	124 C	D1525
Brittleness Temperature	<-180 F	<-118 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	156 F	59 C	
Environmental Stress Crack Resistance	ee		D1693
Condition B, 100% Igepal, F50 (hrs.)	>1,000	>1,000	
Oxidative Induction Time			D3895
@ 210 C	20 min	20 min	
Cell Classification	435430A	435430A	D3350

¹ Typical properties will vary and are not to be used for specification purposes.

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