

3M MDT Tubing

Category : Polymer , Thermoset

Material Notes:

3M MDT Tubing offers increased flexibility in combination with excellent abrasion, corrosion and environmental resistance properties and meets MIL-DTL-23053/15, Class 2. Uncoated product (without sealant) is available on special order. 3M MDT medium-duty tubing is designed to provide reliable performance as well as excellent mechanical and environmental protection. These flam-retardant products combine the important advantages of easy handling and installation with maximum operating reliability and system protection. MDT comes with a factory-applied sealant. This sealant is a heat-activated thermoplastic material that remains soft flexible over long periods under adverse environmental conditions. During heating the sealant softens, bonds to underlying surfaces and fills small voids that might be present. When cool, the sealant forms a barrier against water, moisture, dirt and other environmental contaminants. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-MDT-Tubing.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	
Water Absorption	0.20 %	0.20 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	10.3 MPa	1490 psi	Solvent Resistance
	16.5 MPa	2390 psi	
Elongation at Break	475 %	475 %	
	225 %	225 %	Heat Aged
	@Temperature 175 °C, Time 1.21e+6 sec	@Temperature 347 °F, Time 336 hour	
2% Secant Modulus	0.0965 GPa	14.0 ksi	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Constant	3.5	3.5	ASTM D150
Dielectric Strength	7.87 kV/mm	200 kV/in	Solvent Resistance
	19.7 kV/mm	500 kV/in	

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