

Covestro Texin® 270 Urethane Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP

Material Notes:

Key Features:UnfilledSuitable processing methods:Injection moldingInformation provided by Bayer Polymers.As of 1 September 2015, Bayer MaterialScience was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Texin-270-Urethane-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa @Strain 50.0 %	4060 psi @Strain 50.0 %	
Elongation at Break	>= 50 %	>= 50 %	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C @Temperature 20.0 °C	77.8 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	46.0 °C	115 °F	
Vicat Softening Point	158 °C	316 °F	50°C/h 50N
Glass Transition Temp, Tg	0.000 °C	32.0 °F	10°C/min

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+12 ohm-cm	5.00e+12 ohm-cm	
Surface Resistance	9.00e+14 ohm	9.00e+14 ohm	
Dielectric Constant	3.9 @Frequency 1e+6 Hz	3.9 @Frequency 1e+6 Hz	
	4.6 @Frequency 100 Hz	4.6 @Frequency 100 Hz	
Dielectric Strength	23.7 kV/mm	602 kV/in	
Dissipation Factor	0.029	0.029	

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
	0.031	0.031	
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	230 °C	446 °F	Injection Molding
Mold Temperature	35.0 °C	95.0 °F	Injection Molding
Injection Pressure	45.0 MPa	6530 psi	

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