

Covestro Desmopan® 453 Urethane Thermoplastic Elastomer (discontinued **)

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

Material Notes:

Key Features: Unfilled Suitable processing methods: Injection molding Information provided by Bayer Polymers. As of 1 September 2015, Bayer Material Science was separated from Bayer AG and has officially adopted its new name – Covestro. This product was discontinued prior to the separation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Desmopan-453-Urethane-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	12.0 MPa	1740 psi	Stress at 50% Strain
Elongation at Break	>= 50 %	>= 50 %	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	163 µm/m-°C	90.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Vicat Softening Point	145 °C	293 °F	50°C/h 50N

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.30e+12 ohm-cm	2.30e+12 ohm-cm	
Surface Resistance	3.00e+12 ohm	3.00e+12 ohm	
Dielectric Constant	4.5	4.5	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	5.5	5.5	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.027	0.027	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.069	0.069	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Comparative Tracking Index Electrical Properties	600 V Metric	600 V English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	210 °C	410 °F	Injection Molding
Mold Temperature	30.0 °C	86.0 °F	Injection Molding
Injection Pressure	50.0 MPa	7250 psi	

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