

Covestro Desmopan® 588 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Desmopan 588 is a TPU on the basis of a special ether with good microbe-resistance. Applications: Cable sheathing, hoses, profiles. Information provided by Bayer. As of 1 September 2015, Bayer Material Science 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-Desmopan-588-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	DIN 53505
Elongation at Break	>= 50 %	>= 50 %	Nominal
Compression Set	30 %	30 %	70 hr; 22°C
	65 %	65 %	24 hr
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	165 µm/m-°C	91.7 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.00e+12 ohm-cm	3.00e+12 ohm-cm	
Surface Resistance	6.00e+11 ohm	6.00e+11 ohm	
Dielectric Constant	5.0	5.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	6.3	6.3	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	20.2 kV/mm	513 kV/in	
Dissipation Factor	0.024	0.024	
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	0.084 Metric	0.084 English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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