

Covestro Desmopan® 385 Thermoplastic Polyurethane

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

Material Notes:

Desmopan 385 is a TPU on the basis of a standard ester. Applications: Screen sections, films, hoses, seals, technical automotive parts. 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-385-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	DIN 53505
Elongation at Break	>= 50 %	>= 50 %	Nominal
Compression Set	30 %	30 %	70 hr; 22°C
	55 %	55 %	24 hr
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	150 µm/m-°C	83.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	8.00e+11 ohm-cm	8.00e+11 ohm-cm	
Surface Resistance	5.00e+11 ohm	5.00e+11 ohm	
Dielectric Constant	5.6	5.6	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	6.5	6.5	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	17.5 kV/mm	445 kV/in	

Electrical Properties	0.029 Metric	0.029 English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.060	0.060	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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