

Covestro Desmopan® 150 Thermoplastic Polyurethane

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

Material Notes:

Desmopan 150 is a TPU on the basis of a standard ester. Applications: Ski boots, castors, shoe heels, technical injection molding 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-150-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	96	96	DIN 53505
Hardness, Shore D	50	50	DIN 53505
Elongation at Break	>= 50 %	>= 50 %	Nominal
Compression Set	25 %	25 %	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	210 µm/m-°C	117 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	
Surface Resistance	2.00e+12 ohm	2.00e+12 ohm	
Dielectric Constant	4.6	4.6	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	6.0	6.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	14.1 kV/mm	358 kV/in	
	0.029	0.029	

Dissipation Factor Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	Comments
	0.066	0.066	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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