

Covestro Desmopan® 487 Thermoplastic Polyurethane

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

Material Notes:

Desmopan 487 is a TPU on the basis of a special ester. Applications: Seals, gear wheels, shoe heels, engineering components in the automotive sector. 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-487-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	
Water Absorption	1.1 %	1.1 %	Saturation in water
Moisture Absorption at Equilibrium	0.15 %	0.15 %	Equilibrium at 50% RH
Water Absorption at Saturation	1.1 %	1.1 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	DIN 53505
Hardness, Shore D	34	34	DIN 53505
Elongation at Break	>= 50 %	>= 50 %	Nominal
Tensile Creep Modulus, 1 hour	28.0 MPa	4060 psi	
Tensile Creep Modulus, 1000 hours	22.0 MPa	3190 psi	
Compression Set	25 %	25 %	70 hr; 22°C
	40 %	40 %	24 hr
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	184 µm/m-°C	102 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.90e+10 ohm-cm	4.90e+10 ohm-cm	
Surface Resistance	2.90e+10 ohm	2.90e+10 ohm	
	6.4	6.4	

Dielectric Constant Electrical Properties	Metric @Frequency 1e+6 Hz	English @Frequency 1e+6 Hz	Comments
	6.7	6.7	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	18.8 kV/mm	478 kV/in	
Dissipation Factor	0.0111	0.0111	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.025	0.025	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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