

Dow Pellethane® 2351-85AE Polyurethane Elastomer, Ether Based (discontinued **)

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

Material Notes:

PELLETHANE® 2351-85AE elastomer is a polyether hybrid specialty polyurethane elastomer compound which combines excellent resistance to fuels and oils with good hydrolytic stability and high damping capacity. Data provided by Dow Chemical. This product is no longer a part of the PELLETHANE® product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Pellethane-2351-85AE-Polyurethane-Elastomer-Ether-Based-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	
Melt Flow	25 g/10 min @Load 8.70 kg, Temperature 190 °C	25 g/10 min @Load 19.2 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	
Tensile Strength at Break	24.4 MPa	3540 psi	Tensile stress at break.
Elongation at Break	610 %	610 %	
50% Modulus	0.00550 GPa	0.798 ksi	
100% Modulus	0.00590 GPa	0.856 ksi	
300% Modulus	0.00970 GPa	1.41 ksi	
Tear Strength	127 kN/m	725 pli	
Taber Abrasion, mg/1000 Cycles	50	50	H22 Wheel
Compression Set	30 %	30 %	23°C.
	80 %	80 %	
	@Temperature 70.0 °C	@Temperature 158 °F	
Tensile Set	80 %	80 %	Elongation set after break

Thermal Properties	Metric	English	Comments
	159 µm/m-°C	88.3 µin/in-°F	

CTE linear Thermal Properties		Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	Comments
Vicat Softening Point		67.0 °C	153 °F	
Glass Transition Temp, Tg		-24.0 °C	-11.2 °F	
Clash Berg Stiffness Temperature		-38.0 °C	-36.4 °F	

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