

Dow Pellethane® 2103-90AEF Polyurethane Elastomer, Ether Based (discontinued **)

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

Material Notes:

PELLETHANE® 2103-90AEF elastomer is a polytetramethylene glycol ether based polyurethane elastomer, featuring superior resilience, low temperature properties, excellent hydrolytic stability, and resistance to attack by microorganisms. Its typical applications include wire and cable jacketing, wheels, film, tubing, and belting. 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-2103-90AEF-Polyurethane-Elastomer-Ether-Based-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in³	
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	
Melt Flow	3.0 g/10 min @Load 8.70 kg, Temperature 190 °C	3.0 g/10 min @Load 19.2 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	
Tensile Strength at Break	37.9 MPa	5500 psi	Tensile stress at break.
Elongation at Break	500 %	500 %	
50% Modulus	0.00634 GPa	0.920 ksi	
100% Modulus	0.00896 GPa	1.30 ksi	
300% Modulus	0.0172 GPa	2.49 ksi	
Secant Modulus	0.0690 GPa	10.0 ksi	2% Secant Modulus
Tear Strength	134 kN/m	765 pli	
Taber Abrasion, mg/1000 Cycles	50	50	H22 Wheel
Compression Set	25 %	25 %	23°C.
	40 %	40 %	
	@Temperature 70.0 °C	@Temperature 158 °F	
Tensile Set	60 %	60 %	Elongation set after break

Thermal Properties	Metric	English	Comments
CTE, linear	156 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	86.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Vicat Softening Point	102 $^{\circ}\text{C}$	216 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	-27.0 $^{\circ}\text{C}$	-16.6 $^{\circ}\text{F}$	
Clash Berg Stiffness Temperature	6.11 $^{\circ}\text{C}$	43.0 $^{\circ}\text{F}$	

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