

Dow PELLETHANE® 2104-45D Polyurethane Elastomer (Ether-Ether Hybrid) (discontinued **)

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

Material Notes:

Description: PELLETHANE® 2104-45D ether-ether hybrid polyurethane elastomer has excellent low temperature properties, fast cycle time, and good resistance to fuel and oils. Applications include: Caster wheels, Seals, Gaskets, Animal tags, Hose jacketing, Ski boots, AutomotiveData provided by Dow Chemical.Lubrizol acquired the Pellethane product line from Dow in 2009.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-PELLETHANE-2104-45D-Polyurethane-Elastomer-Ether-Ether-Hybrid-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Melt Index of Compound	19 g/10 min @Load 1.20 kg, Temperature 224 °C	19 g/10 min @Load 2.65 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50 - 60	50 - 60	ASTM D2240
Tensile Strength, Ultimate	37.9 MPa	5500 psi	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412
50% Modulus	0.00930 GPa	1.35 ksi	ASTM D412
100% Modulus	0.0103 GPa	1.49 ksi	ASTM D412
300% Modulus	0.0186 GPa	2.70 ksi	ASTM D412
Flexural Modulus	0.689 GPa	100 ksi	ASTM D790
Tear Strength	120 kN/m	685 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	40	40	H-22 wheel (coarser); ASTM D1044
Compression Set	20 %	20 %	22 hrs. @ 77°F (25°C); ASTM D395, Method B
	65 % @Temperature 70.0 °C	65 % @Temperature 158 °F	22 hrs.; ASTM D395, Method B
Tensile Set	70 %	70 %	Elongation Set After Break; ASTM D412

Thermal Properties	Metric	English	Comments
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Thermal Properties	152 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	84.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Vicat Softening Point	133 $^\circ\text{C}$	271 $^\circ\text{F}$	ASTM D1525
Glass Transition Temp, Tg	-28.0 $^\circ\text{C}$	-18.4 $^\circ\text{F}$	DSC

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 227 $^\circ\text{C}$	410 - 441 $^\circ\text{F}$	

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