

Dow PELLETHANE® 2104-65D Polyurethane Elastomer (Ether-Ether Hybrid) (discontinued **)

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

Material Notes:

Description: PELLETHANE® 2104-65D Polyester based. Excellent oil and chemical resistance. 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-2104-65D-Polyurethane-Elastomer-Ether-Ether-Hybrid-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Melt Index of Compound	22 g/10 min @Load 1.20 kg, Temperature 224 °C	22 g/10 min @Load 2.65 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63 - 73	63 - 73	ASTM D2240
Tensile Strength, Ultimate	37.9 MPa	5500 psi	ASTM D412
Elongation at Break	400 %	400 %	ASTM D412
50% Modulus	0.0214 GPa	3.10 ksi	ASTM D412
100% Modulus	0.0228 GPa	3.31 ksi	ASTM D412
300% Modulus	0.0303 GPa	4.39 ksi	ASTM D412
Flexural Modulus	0.207 GPa	30.0 ksi	ASTM D790
Tear Strength	201 kN/m	1150 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	56	56	H-22 wheel (coarser); ASTM D1044
Compression Set	46 %	46 %	22 hrs. @ 77°F (25°C); ASTM D395, Method B
	82 % @Temperature 70.0 °C	82 % @Temperature 158 °F	22 hrs.; ASTM D395, Method B
Tensile Set	130 %	130 %	Elongation Set After Break; ASTM D412

Thermal Properties	Metric	English	Comments
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Thermal Properties	119 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	66.1 $\mu\text{m}/\text{in}\cdot^\circ\text{F}$ English	Comments
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Vicat Softening Point	143 $^\circ\text{C}$	289 $^\circ\text{F}$	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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