

Dow PELLETHANE® 2101-85A Polyurethane Elastomer (Ether-Ether Hybrid) (discontinued **)

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

Material Notes:

Description: PELLETHANE® 2101-85A offers good low temperature properties, fast cycle time, and good hydrolytic stability. Applications include: seals, gaskets, animal tags, molding applications, hose jacket. Data 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-2101-85A-Polyurethane-Elastomer-Ether-Ether-Hybrid-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Melt Index of Compound	45 g/10 min	45 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 224 °C	@Load 2.65 lb, Temperature 435 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84 - 92	84 - 92	ASTM D2240
Tensile Strength, Ultimate	28.0 MPa	4060 psi	ASTM D412
Elongation at Break	590 %	590 %	ASTM D412
100% Modulus	0.00800 GPa	1.16 ksi	ASTM D412
300% Modulus	0.0129 GPa	1.87 ksi	ASTM D412
Tear Strength	111 kN/m	633 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	40	40	H-22 wheel (coarser); ASTM D1044
Compression Set	81 %	81 %	22 hrs.; ASTM D395, Method B
	@Temperature 70.0 °C	@Temperature 158 °F	
Tensile Set	120 %	120 %	Elongation Set After Break; ASTM D412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	109 °C	228 °F	ASTM D1525
Glass Transition Temp, Tg	-24.0 °C	-11.2 °F	DSC

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	204 - 221 °C Metric	399 - 430 °F English	Comments
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