

Dow PELLETHANE® 2103-75D Film Grade Thermoplastic Polyurethane Elastomer (discontinued **)

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

Material Notes:

Description: PELLETHANE® 2103-75D UV stabilized, polyether based thermoplastic polyurethane elastomer has excellent hydrolytic stability and excellent resistance to micro-organisms. Applications include: Film, Tubing and belting, Geophysical wire and cable jacketing, Cell phones and PDA overmolding 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-2103-75D-Film-Grade-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0080 cm/cm @Thickness 1.59 mm	0.0030 - 0.0080 in/in @Thickness 0.0625 in	plaque
Linear Mold Shrinkage, Transverse	0.0030 - 0.0070 cm/cm @Thickness 1.59 mm	0.0030 - 0.0070 in/in @Thickness 0.0625 in	plaque
Melt Index of Compound	28 g/10 min @Load 5.00 kg, Temperature 224 °C	28 g/10 min @Load 11.0 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72 - 80	72 - 80	ASTM D2240
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D412
Elongation at Break	380 %	380 %	ASTM D412
50% Modulus	0.0305 GPa	4.42 ksi	ASTM D412
100% Modulus	0.0313 GPa	4.54 ksi	ASTM D412
Flexural Modulus	1.31 GPa	190 ksi	ASTM D790
Tear Strength	257 kN/m	1470 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	55	55	H-22 wheel (coarser); ASTM D1044
Tensile Set	40 %	40 %	Elongation Set After Break; ASTM D412

Thermal Properties	Metric	English	Comments
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Thermal Properties	88.7 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ Metric	49.3 $\mu\text{m}/\text{in}\cdot^{\circ}\text{F}$ English	Comments
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Vicat Softening Point	116 °C	241 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	204 - 221 °C	399 - 430 °F	Optimum Extrusion Temperature
Melt Temperature	210 - 227 °C	410 - 441 °F	

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