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

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

Material Notes:

PELLETHANE® 2103-90AEN 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 film, tubing, and belting. This resin is listed by National Sanitation Foundation (NSF) (Standard 61). When used unmodified for the manufacture of food contact articles PELLETHANE 2103-90AEN complies with the US Food, Drug and Cosmetic Act and Food Additive Regulations 21 CFR 175.105, 177.2600 and 177.1680. The regulations should be consulted for complete details.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-2103-90AEN-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	9.0 g/10 min @Load 8.70 kg, Temperature 190 °C	9.0 g/10 min @Load 19.2 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47	47	
Tensile Strength at Break	48.2 MPa	6990 psi	Tensile stress at break.
Elongation at Break	560 %	560 %	
50% Modulus	0.00621 GPa	0.901 ksi	
100% Modulus	0.00896 GPa	1.30 ksi	
300% Modulus	0.0172 GPa	2.49 ksi	
Tear Strength	95.2 kN/m	543 pli	
Taber Abrasion, mg/1000 Cycles	50	50	H22 Wheel
Compression Set	25 %	25 %	23°C.
	40 % @Temperature 70.0 °C	40 % @Temperature 158 °F	
Tensile Set	60 %	60 %	Elongation set after break

Thermal Properties	Metric	English	Comments
CTE, linear	155 µm/m-°C @Temperature 20.0 °C	86.1 µin/in-°F @Temperature 68.0 °F	
Vicat Softening Point	90.0 °C	194 °F	
Glass Transition Temp, Tg	-34.0 °C	-29.2 °F	
Clash Berg Stiffness Temperature	6.11 °C	43.0 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China