

Sorbothane Polyurethane Damping Material, 30 Durometer

Category: Polymer, Thermoset, Polyurethane, TS, Thermoset Polyurethane, Elastomer, Unreinforced, Rubber or Thermoset Elastomer (TSE)

Material Notes:

Sorbothane® is a thermoset, polyether-based polyurethane viscoelastic material that combines high energy absorption with faultless memory. Sorbothane turns mechanical energy into heat. As the material is deformed, the friction created at the molecular level is generated into heat. High hysteresis is then formed. The energy is moved perpendicularly away from its original plane and is pushed close to 90° out of phase from its original disturbing force. Sorbothane is used in shock/vibration mounts, stud mounts, and grommets/bushings in diverse fields such as electronics/audio equipment, noise abatement, insoles, protective sports gear, and anti-vibration gloves and wraps. Information provided by Sorbothane Inc

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sorbothane-Polyurethane-Damping-Material-30-Durometer.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	0.520 MPa	75.4 psi	500 mm/min; ASTM D412 80
Tourile Otense ath Wield	0.110 MPa	16.0 psi	ASTM D412 80
Tensile Strength, Yield	@Strain 100 %	@Strain 100 %	A3 1191 D4 12 00
Elongation at Break	500 %	500 %	500 mm/min; ASTM D412 80
Compressive Yield Strength	0.300 MPa	43.5 psi	50% strain; ASTM D575 Method A
Resilience	10	10	Lupke rebound test
Coefficient of Friction	3.3	3.3	on polished steel; ASTM D1894
Coefficient of Friction, Static	15.8	15.8	on polished steel; ASTM D1894
Tear Strength Test	17.2	17.2	psi per ASTM 624 with 1 mm nick
Compression Set	9.7 %	9.7 %	72 hr/73°F/25% compression - ASTM 395

Thermal Properties	Metric	English	Comments
	132 Âμm/m-°C	73.3 µin/in-°F	
CTE, linear	@Temperature -50.0 - @Temperature -58.0 - 212 °F		
Thermal Conductivity	0.370 W/m-K	2.57 BTU-in/hr-ft²- °F	
Maximum Service Temperature, Air	<= 82.0 °C	<= 180 °F	Optimum performance range



Thermal Properties	Metric 0 A C	English Are	Comments operation performance range
Glass Transition Temp, Tg	-46.0 °C	-50.8 °F	
Flammability, UL94	V-2	V-2	

Electrical Properties	Metric	English	Comments
Dielectric Strength	11.1 kV/mm	282 kV/in	BS 903

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