

Conathane TU-89MF

Polyurethane
Conap, Inc, a Division of Cytec Industries Inc.



Prospector

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Abrasion Resistance • Good Chemical Resistance • Good Tear Strength	• Good Toughness • High Elongation • High Tensile Strength	• Solvent Resistant
Uses	• Acoustic Barrier • Belts/Belt Repair • Bushings	• Diaphragms • Gaskets • Molds/Dies/Tools	• Pulleys • Washer • Wheels
Appearance	• Amber		
Forms	• Liquid		
Processing Method	• Casting		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.08	1.08	ASTM D792
Molding Shrinkage - Flow	0.025 in/in	2.5 %	ASTM D955

Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3200 psi	22.1 MPa	ASTM D412
Tensile Elongation (Break)	600 %	600 %	ASTM D412
Tear Strength	425 lbf/in	74.4 kN/m	ASTM D624

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A)	89	89	ASTM D2240

Thermoset	Nominal Value (English)	Nominal Value (SI)	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 53, Mix Ratio by Volume: 50	Mix Ratio by Weight: 53, Mix Ratio by Volume: 50	
Resin	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100	
Pot Life (77°F (25°C))	15 to 25 min	15 to 25 min	
Thermoset Mix Viscosity (77°F (25°C))	4000 cP	4000 cP	ASTM D2393
Demold Time			
77°F (25°C)	300 min	300 min	
176°F (80°C)	180 min	180 min	
Post Cure Time (77°F (25°C))	170 hr	170 hr	

Notes

¹ Typical properties: these are not to be construed as specifications.