

Innothane®

Product Name

TD 277-02

Description

TD 277-02 is a tough, impact resistant elastomer formulated for room temperature meter-mix dispensing systems and short mold cycle times. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. TD 277-02 is approved for many medical applications including MRI coil housings and is a U.L. 94v0 registered flame retardant polyurethane. Innovative Polymers, Inc products are RoHS compliant.

Physical Properties

Mix Ratio	Resin:Hardener (parts by weight)	100:86
Mix Ratio	Resin:Hardener (parts by volume)	100:100
Viscosity (cps@77°F)	Resin	800
	Hardener	2400
	Mixed	1000
Specific Gravity (g/cc)	Resin	1.39
	Hardener	1.20

Cure 1 ► 24 hours at 77°F + 16 hours at 200°F
Cure 2 ► 7 days at 77°F



Cured Properties

	Method	Cure 1	Cure 2
Hardness (shore D)	ASTM D-2240	80 ± 5	80 ± 5
Tensile Strength (psi)	ASTM D-638	3,850	3,700
Elongation at Break	ASTM D-638	10%	6%
Ultimate Flex Strength (psi)	ASTM D-790	10,800	11,350
Flexural Modulus (psi)	ASTM D-790	350,500	400,000
Notched Izod (ft.lbs./in.)	ASTM D-256	0.7	0.7
Heat Deflection Temp. (264psi)	ASTM D-648	78°C / 173°F	68°C / 154°F
Specific Gravity (g/cc)		1.26	1.26

Processing Notes

TD 277-02 can be used at room temperature. Meter-mix equipment is recommended due to the short working life of the formulation. TD 277-02 has been engineered for medical applications and is MRI transparent.

The resin and hardener components of TD 277-02 will separate during storage.

Agitate the hardener and resin before use to ensure that the formula is homogeneous.

<u>Kit Weights</u>	Quart Kit	1 Gal. Kit	5 Gal. Kit	Drum Kit
	3.72 lbs.	14.88 lbs.	74.4 lbs.	837 lbs.

Safety and Handling

DO NOT USE UNTIL MSDSs HAVE BEEN READ AND UNDERSTOOD. Store containers in a dry location. Partially used containers should be blanketed with dry nitrogen to prevent moisture contamination. Moisture will react with the resin component, creating carbon dioxide gas and a possible pressure increase in the container.

SPECIFICATION WRITERS: The above values are meant to represent typical properties only. Users are encouraged to qualify products in their own laboratories prior to specification publication.

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