

PRODUCT DATA BULLETIN

TD 283-05I

POLYURETHANE ELASTOMER

DESCRIPTION

TD 283-05I is tough, water clear polyurethane elastomer formulated for room temperature hand batch processing. The unique chemistry of the system imparts excellent optical clarity and UV stability. Excellent physical properties including heat distortion are obtained with a mild post cure without the utilization of MOCA or TDI.

APPLICATIONS

* Prototypes * Flow Models * Encapsulating * Fixtures
* Rollers * Pallets * Lenses

TYPICAL PROPERTIES

Resin/Hardener ratio (parts by Weight)	100/38
Resin viscosity (@ 77° F.)	900 cps
Hardener viscosity (@ 100 ° F.)	8500 cps
Initial mixed viscosity	1400 cps
Working life	15-20 min.
Color	Clear
Ultimate cure @ 77° F.	7 days
Density	
Resin	1.16 gm/cm ³
Hardener	

CURED PROPERTIES

	Test Method	24 hours + 4 hours @ 175° F	7 days + 4 hours @ 175° F
Hardness	ASTM D-2240	75-85 D	75-85 D
Tensile Strength	ASTM D-638 (1" per minute)	10,000 psi	10,000 psi
Elongation at Break	ASTMD-638	5%	5%
Flex Modulus	ASTMD-790	300,000 psi	325,000 psi
Impact Strength	ASTM D-256	.6 ft. lb./in.	.7 ft. lb./in.
Linear Shrinkage	ASTMD-2566 Mold #1	.004 in./in.	.004 in./in.
Heat Distortion Temp.	ASTM D-648 @ 66 psi @ 264 psi	95° C. 88° C.	98° C. 93° C.