



**Product Name**

## TD 284-05P Polyurethane



**Description**

TD 284-05P 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.

**Physical Properties**

<b>Mix Ratio</b>	Resin:Hardener (parts by weight)		<b>100:88</b>	
<b>Mix Ratio</b>	Resin:Hardener (parts by volume)		<b>100:100</b>	
<b>Viscosity</b> (cps@77°F)	Resin	100	<b>Gel Time</b>	70 ± 10 Seconds
	Hardener	1200	<b>Demold Time</b>	12.5 ± 2.5 Minutes
	Mixed	500	<b>Color</b>	White-Grey
<b>Specific Gravity</b> (g/cc)	Resin	1.26		
	Hardener	1.10		

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

**Cured Properties**

	Method	Cure 1	Cure 2
<b>Hardness (shore D)</b>	ASTM D-2240	75 ± 5	80 ± 5
<b>Tensile Strength (psi)</b>	ASTM D-638	4,700	6,500
<b>Elongation at Break</b>	ASTM D-638	9%	9%
<b>Compression Strength (psi)</b>	ASTM D-695	N/A	N/A
<b>Compression Modulus (psi)</b>	ASTM D-695	N/A	N/A
<b>Ultimate Flex Strength (psi)</b>	ASTM D-790	7,500	9,700
<b>Flexural Modulus (psi)</b>	ASTM D-790	185,000	210,000
<b>Notched Izod (ft.lbs./in.)</b>	ASTM D-256	1.1	1.1
<b>Linear Shrink (in./in.)</b>	ASTM D-2566	N/A	N/A
<b>Heat Deflection Temp. (66psi)</b>	ASTM D-648	N/A	N/A
<b>Heat Deflection Temp. (264psi)</b>	ASTM D-648	90°C / 194°F	90°C / 194°F
<b>Specific Gravity (g/cc)</b>		1.14	1.14

**Processing Notes**

TD 284-05P can be used at room temperature. Meter-mix equipment is recommended due to the short working-life of the formulation.

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

**Safety and Handling**

DO NOT USE UNTIL MSDS 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. PURCHASER has the responsibility for determining any applicability of and compliance with federal, state, and local laws concerning labeling, use, and waste disposal, particularly in making consumer items. Innovative Polymers, Inc. makes no warranty, expressed or implied, for merchantability or fitness of use. The sole liability of Innovative Polymers, Inc. for any claim arising out of the manufacture, use, or sale of its products shall be the buyers purchase price.