



# High Temperature Polyurethanes (HTTPU's)

		BTL HT Grade		
Polymer	ISO	HT S90	HT S93	HT S96
Properties	Test Method	Typical Values	Typical Values	Typical Values
<b>Mechanical<sup>1,2</sup></b>				
Durometer Shore A (+/- 2)				
Instantaneous 15 seconds	BS ISO 7619-1:2010	91 90	93 93	96 96
<b>Compression set [%]</b>				
24 hours @ 70°C ± 2°C 24 hours @ 100°C ± 2°C 24 hours @ 125°C ± 2°C	BS ISO 815-1:2008	38.1 48.4 84.1	27.4 31.8 56.5	39.1 45.3 78.7
Lupke Rebound Resilience	BS ISO 4662: 2009	72	72	62
Ultimate Elongation at Break [%]	BS ISO 37:2011	840	500	545
Ultimate Tensile Strength [MPa]	BS ISO 37:2011	35.1	38.2	67
<b>Processing Recommendations</b>				
Drying Temperature [°C]		80-90	80-90	80-90
Melt Temperature [°C]		190-220	190-220	190-220

<sup>1</sup>Independently verified test data

<sup>2</sup>All tests conducted on injection moulded samples, post cured for 16hrs at 120°C

Note: The information and data contained herein do not constitute sales specifications. No liability, warranty or guarantee of final product performance is created by this document. No freedom from any patent is granted or to be inferred.



## Safety and Handling

Material Safety Data Sheets are available from Biomer Technology Limited and are provided to assist customers in the safe handling of BTL “HT” Series polyurethanes in accordance with their own protocols.



## Notice

The use of BTL “HT” polyurethanes in controlled devices not covered by any specific regulations. Biomer Technology Limited disclaims any warranty for its sale or use for any particular application. It is the responsibility of the user to establish safety and compliance through individual submission to the appropriate regulatory body.

The use of BTL “HT” Series polyurethanes in certain device applications is restricted by licence.

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