

## TPU Materials Overview



MATERIAL CODE	PU8502	PU9201	PU9204	PU9401	PU9409	PU6001	PU7301
DESCRIPTION	Low Hardness TPU	Premium TPU	Low Temperature TPU	Premium TPU	TPU for Fire Resistant Fluids	High Abrasion Resistant TPU	High Hardness TPU
Specific Gravity	1.19 g/cm <sup>3</sup>	1.14 g/cm <sup>3</sup>	1.14 g/cm <sup>3</sup>	1.16 g/cm <sup>3</sup>	1.20 g/cm <sup>3</sup>	1.18 g/cm <sup>3</sup>	1.20 g/cm <sup>3</sup>
Hardness	85 Shore A	92 Shore A	92 Shore A	94 Shore A	94 Shore A	60 Shore D	75 Shore D
Tensile Strength	53 MPa	45 MPa	50 MPa	50 MPa	47 MPa	50 MPa	65 MPa
Modulus 100%	8 MPa	12 MPa	12 MPa	10 MPa	12.6 MPa	19 MPa	30 MPa
Elongation at Break	450 %	460 %	450 %	540 %	400 %	400 %	380 %
Compression Set 22h 100°C	30 %	30 %	32 %	25 %	33 %	-	-
Tear Strength	70 N/mm	80 N/mm	80 N/mm	140 N/mm	110 N/mm	170 N/mm	220 N/mm
Abrasion Loss	21 mm <sup>3</sup>	30 mm <sup>3</sup>	30 mm <sup>3</sup>	30 mm <sup>3</sup>	25 mm <sup>3</sup>	20 mm <sup>3</sup>	22 mm <sup>3</sup>
Temperature Range	-30 / +100 °C	-40 / +100 °C	-45 / +100 °C	-35 / +110 °C	-30 / +120 °C	-30 / +100 °C	-30 / +100 °C

While the information and recommendations in this publication are, to the best of our knowledge, information and belief, accurate at the date of publication, nothing herein is to be construed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose. Nothing in this publication is to be construed as recommending the infringement of any Patent or other intellectual property right and no liability arising from any such infringement are assumed.

TP.2015.07