



Overview

PU90TY01 is Canyon's polyester, cast TODI 90 shore A durometer, translucent yellow, CanThane Polyurethane. PU90TY01 offers good wear and tear resistance. Compare to Parker®.

Features & Benefits

- Extreme resistance to wear and abrasion.
- Good flexibility and compression set resistance.
- Resistant to water, oxygen, ozone, and weathering.

Service Temperature

- -55°C to 125°C (-67°F to 257°F)

Specification

- Polyester Cast TODI Polyurethane

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Transl- Yellow	Transl- Yellow
Hardness, Shore A	90+/-5	92
Tensile Strength, psi (MPa)	5000 min	6381 (44)
Elongation	450%	580%
Modulus @ 100%, psi (MPa)		1885 (13)
Modulus @ 300%, psi (MPa)		3480 (24)

Abrasion
Resistant

General
Purpose



Table 2. Heat Aging – 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	+15 max	-1
Tensile Strength, %	-20 max	-8
Elongation, %	-40 max	-3

Table 3. Compression Set – 70 hrs at 70°C

Test (Change)	Requirements	Results
Permanent Set, %	35 max	19

Table 4. Compression Set – 70 hrs at 100°C

Test (Change)	Requirements	Results
Permanent Set, %	65 max	59

Table 5. Water Resistance – 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	-2
Tensile Strength, %	-50 max	-15
Elongation, %	-50 max	-2
Volume, %	0 to +25	+3

Table 6. Oil #1 Resistance – 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +15	0
Tensile Strength, %	-25 max	-12
Elongation, %	-45 max	-3
Volume, %	-10 to +5	0

Table 7. Oil #3 Resistance – 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	0 to +15	-4
Tensile Strength, %	-45 max	-10
Elongation, %	-45 max	-5
Volume, %	0 to +35	+3