

## Overview

PU70TY01 is Canyon's polyester TODI, 70 shore A durometer, translucent yellow, CanThane Polyurethane. PU70TY01 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	70+/-5	71
Tensile Strength, psi (MPa)	5000 min	6091 (42)
Elongation	450%	670%
Modulus @ 100%, psi (MPa)		871 (6)
Modulus @ 300%, psi (MPa)		993 (6.9)



**Table 2. Heat Aging – 70 hrs at 100°C**

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

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

Test (Change)	Requirements	Results
Permanent Set, %	35 max	15

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

Test (Change)	Requirements	Results
Permanent Set, %	65 max	57

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

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	-4
Tensile Strength, %	-50 max	-30
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	-4
Tensile Strength, %	-25 max	-12
Elongation, %	-45 max	-3
Volume, %	-10 to +5	+2

**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	-13
Elongation, %	-45 max	-5
Volume, %	0 to +35	+3