

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