EP70BK36 Datasheet

FDA, USP VI, 3A, NSF 61, WRAS, KTW, UL, Black EPDM 70A

Overview

EP70BK36 is Canyon's wide compliance 70 shore A durometer, black EPDM. EP70BK36 is designed with many compliances in mind, allowing it to be used in medical, pharmaceutical, food, dairy, and drinking water applications.

Features & Benefits

- USP Class VI <87> & <88>
- NSF 61, WRAS, & KTW Certified
- UL 778 for drinking water
- FDA compliant to 21 CFR 177.2600
- 3A Sanitary 18-03 Cl2
- Low Compression Set

Service Temperature

- -55°C to 150°C (-67°F to 300F)

Specification

- ASTM D2000 M3DA714 A26 B36 C32 EA14 F19 G21

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	70+/-5	71
Tensile Strength, psi (MPa)	2030 min	2495 (17.2)
Elongation	150% min	225%
Specific Gravity, g/cm^3		1.14

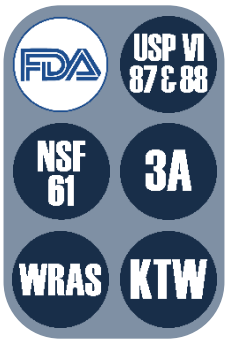

Table 2. A26 - Heat Aging – 70 hrs at 150°C		
Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+3
Tensile Strength, %	-20 max	-17
Elongation, %	-20 max	-19

Table 3. B36 – Compression Set - 22 hrs at 150°C		
Test (Change)	Requirements	Results
Permanent Set, %	25 max	13

Table 4. C32 – Ozone – 70 hrs at 40°C		
Test (Change)	Requirements	Results
No Cracks	Pass	Pass

Table 5. EA14 – Water Resistance – 70 hrs at 100°C		
Test (Change)	Requirements	Results
Hardness, Shore A	N/A	-1
Volume, %	-5 to +5	+1

Table 6. F19 – Low Temp Brittleness Test – 3 mins at -55°C		
Test (Change)	Requirements	Results
Brittleness	Non-Brittle	Non-Brittle

Table 7. G21 – Tear Resistance		
Test (Change)	Requirements	Results
Die B, N/mm	N/A	11
Die C, N/mm	17	30

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