# Telcar® TL-97-T0207G-87UV

## Teknor Apex Company - Thermoplastic Elastomer

Tuesday, April 7, 2026

### General Information

**Product Description**

Telcar TL-97-T0207G-87UV is a high performance flame retardant thermoplastic elastomer designed for electrical applications including fiber optics. Telcar TL-97-T0207G-87UV is a high hardness, medium density, UV stabilized grade that is suitable for extrusion.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Chemical Resistant<br>• Filled<br>• Flame Retardant<br>• Good Adhesion | • Good Processability<br>• Good Tear Strength<br>• Good Toughness<br>• High Hardness | • Light Stabilized<br>• Low Flow<br>• Medium Density<br>• Slip |
| Uses | • Fiber Optic Cable | • Industrial Applications | • Rubber Replacement |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Colors Available | • Natural Color | • Opaque |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.05 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.2 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress | | | ISO 37 |
| Across Flow : 100% Strain | 759 | psi | |
| Flow : 100% Strain | 1030 | psi | |
| Tensile Stress | | | ISO 37 |
| Across Flow : Break | 1520 | psi | |
| Flow : Break | 1130 | psi | |
| Tensile Elongation | | | ISO 37 |
| Across Flow : Break | 820 | % | |
| Flow : Break | 370 | % | |
| Tear Strength | | | ISO 34-1 |
| Across Flow | 349 | lbf/in | |
| Flow | 341 | lbf/in | |
| Compression Set | | | ISO 815 |
| 73°F, 22 hr | 49 | % | |
| 158°F, 22 hr | 88 | % | |
| 194°F, 70 hr | 94 | % | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Shore Hardness | | | ISO 868 |
| Shore D, 1 sec | 49 | | |
| Shore D, 5 sec | 42 | | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Brittleness Temperature | < -67.0 | °F | ASTM D746 |

Revision Date: 8/23/2019

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## Teknor Apex Company - Thermoplastic Elastomer

| Aging | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Change in Tensile Strength in Air - Across Flow (257°F, 168 hr) | -9.5 | % | ISO 188 |
| Change in Tensile Strain at Break in Air - Across Flow | | | ISO 188 |
| 257°F, 168 hr | -5.5 | % | |
| Change in Shore Hardness in Air | | | ISO 188 |
| Shore D, 257°F, 168 hr | 4.3 | | |

| Fill Analysis | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Apparent Viscosity (392°F, 206 sec^-1) | 549 | Pa·s | ASTM D3835 |

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## Processing Information

| Extrusion | Nominal Value | Unit |
|---|---|---|
| Cylinder Zone 1 Temp. | 330 to 390 | °F |
| Cylinder Zone 2 Temp. | 340 to 400 | °F |
| Cylinder Zone 3 Temp. | 350 to 410 | °F |
| Cylinder Zone 4 Temp. | 360 to 420 | °F |
| Cylinder Zone 5 Temp. | 360 to 420 | °F |
| Die Temperature | 374 to 410 | °F |

**Extrusion Notes**

Screw Speed: 30 to 100 rpm

### Notes

[1] Typical properties: these are not to be construed as specifications.

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