

# Telcar® TL-97-T0207G-87UV

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Telcar®TL-97-T0207G-87UV is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is: extrusion. Telcar®The main characteristics of the TL-97-T0207G-87UV are: resistance to sunlight.

Telcar®The typical application fields of TL-97-T0207G-87UV are: wire and cable

| General Information                       |                     |          |             |
|-------------------------------------------|---------------------|----------|-------------|
| Features                                  | Sunlight Resistant  |          |             |
|                                           | smoothness          |          |             |
|                                           | Light stabilization |          |             |
|                                           | Low liquidity       |          |             |
|                                           | Fill                |          |             |
|                                           | Medium density      |          |             |
| Uses                                      | Optical fiber cable |          |             |
| Appearance                                | Opacity             |          |             |
| Forms                                     | Particle            |          |             |
| Processing Method                         | Extrusion           |          |             |
| Physical                                  | Nominal Value       | Unit     | Test Method |
| Specific Gravity                          | 1.06                | g/cm³    | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.5                 | g/10 min | ASTM D1238  |
| Hardness                                  | Nominal Value       | Unit     | Test Method |
| Durometer Hardness                        |                     |          | ASTM D2240  |
| Shaw C                                    | 72                  |          | ASTM D2240  |
| Shaw C, 10 seconds                        | 68                  |          | ASTM D2240  |
| Elastomers                                | Nominal Value       | Unit     | Test Method |
| Tensile Strength (Break)                  | 12.4                | MPa      | ASTM D412   |
| Tensile Elongation (Break)                | 600                 | %        | ASTM D412   |
| Thermal                                   | Nominal Value       | Unit     | Test Method |
| Brittleness Temperature                   | < -55.0             | °C       | ASTM D746   |
| Injection                                 | Nominal Value       | Unit     |             |
| Rear Temperature                          | 171 - 193           | °C       |             |
| Middle Temperature                        | 177 - 199           | °C       |             |
| Front Temperature                         | 182 - 204           | °C       |             |
| Nozzle Temperature                        | 188 - 210           | °C       |             |
| Processing (Melt) Temp                    | 188 - 210           | °C       |             |
| Mold Temperature                          | 25.0 - 65.6         | °C       |             |

|                        |               |      |
|------------------------|---------------|------|
| Injection Pressure     | 1.38 - 6.89   | MPa  |
| Injection Rate         | Moderate-Fast |      |
| Back Pressure          | 0.172 - 0.345 | MPa  |
| Screw Speed            | 50 - 100      | rpm  |
| Cushion                | 3.81 - 25.4   | mm   |
| Extrusion              | Nominal Value | Unit |
| Cylinder Zone 1 Temp.  | 166 - 188     | °C   |
| Cylinder Zone 2 Temp.  | 171 - 193     | °C   |
| Cylinder Zone 3 Temp.  | 177 - 199     | °C   |
| Cylinder Zone 5 Temp.  | 182 - 204     | °C   |
| Die Temperature        | 190 - 210     | °C   |
| Extrusion instructions |               |      |

Screw Speed: 30 to 100 rpm

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