



# Telcar® TL-2440F

Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

Telcar TL-2440F is a general purpose thermoplastic elastomer designed for a variety of industrial applications. Telcar TL-2440F is a medium density, low hardness grade suitable for injection molding.

### General

|                   |                                                                       |                                                                                   |                                    |
|-------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|
| Material Status   | • Commercial: Active                                                  |                                                                                   |                                    |
| Availability      | • Africa & Middle East<br>• Asia Pacific                              | • Europe<br>• Latin America                                                       | • North America                    |
| Features          | • Bondability<br>• Filled<br>• General Purpose<br>• Good Colorability | • Good Mold Release<br>• Good Moldability<br>• Good Processability<br>• High Flow | • Low Hardness<br>• Medium Density |
| Uses              | • General Purpose<br>• Grommets                                       | • Industrial Applications<br>• Industrial Parts                                   | • Rubber Replacement               |
| RoHS Compliance   | • RoHS Compliant                                                      |                                                                                   |                                    |
| Appearance        | • Colors Available                                                    | • Natural Color                                                                   | • Opaque                           |
| Forms             | • Pellets                                                             |                                                                                   |                                    |
| Processing Method | • Injection Molding                                                   |                                                                                   |                                    |

## ASTM & ISO Properties <sup>1</sup>

| Physical                                  | Nominal Value | Unit     | Test Method |
|-------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                | 0.980         |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 8.0           | g/10 min | ASTM D1238  |
| Elastomers                                | Nominal Value | Unit     | Test Method |
| Tensile Strength (Break)                  | 700           | psi      | ASTM D412   |
| Tensile Elongation (Break)                | 800           | %        | ASTM D412   |
| Tear Strength                             |               |          | ASTM D624   |
| Across Flow                               | 85.0          | lbf/in   |             |
| Flow                                      | 82.0          | lbf/in   |             |
| Compression Set <sup>2</sup>              |               |          | ASTM D395B  |
| 73°F, 22 hr                               | 17            | %        |             |
| 158°F, 22 hr                              | 40            | %        |             |
| Hardness                                  | Nominal Value | Unit     | Test Method |
| Durometer Hardness                        |               |          | ASTM D2240  |
| Shore A, 1 sec                            | 40            |          |             |
| Shore A, 15 sec                           | 35            |          |             |

## Processing Information

| Injection        | Nominal Value | Unit |
|------------------|---------------|------|
| Rear Temperature | 340 to 380    | °F   |

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| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Middle Temperature     | 350 to 390    | °F   |
| Front Temperature      | 360 to 400    | °F   |
| Nozzle Temperature     | 370 to 410    | °F   |
| Processing (Melt) Temp | 370 to 410    | °F   |
| Mold Temperature       | 77 to 150     | °F   |
| Injection Pressure     | 200 to 1000   | psi  |
| Injection Rate         | Moderate-Fast |      |
| Back Pressure          | 25.0 to 50.0  | psi  |
| Screw Speed            | 50 to 100     | rpm  |
| Cushion                | 0.150 to 1.00 | in   |

Notes

- <sup>1</sup> Typical properties: these are not to be construed as specifications.
- <sup>2</sup> Type 1