# Telcar® DE 5052

## Teknor Apex Asia Pacific PTE. LTD. - Thermoplastic Elastomer

Friday, April 3, 2026

### General Information

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Asia Pacific | | |
| Uses | • Flexible Grips<br>• Handles | • Plugs<br>• Shock Absorbing Pads | • Toys |
| Appearance | • Natural Color | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.00 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress (100% Strain) | 261 | psi | ASTM D412 |
| Tensile Stress (300% Strain) | 435 | psi | ASTM D412 |
| Tensile Strength (Break) | 725 | psi | ASTM D412 |
| Tensile Elongation (Break) | 500 | % | ASTM D412 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A, 10 sec) | 50 | | ASTM D2240 |

### Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 104 to 176 | °F |
| Rear Temperature | 284 to 356 | °F |
| Middle Temperature | 284 to 356 | °F |
| Front Temperature | 284 to 356 | °F |
| Mold Temperature | 104 to 140 | °F |
| Injection Pressure | 300 to 3000 | psi |
| Injection Rate | Slow-Moderate | |

**Injection Notes**

Purging Material: HDPE, PP

| Extrusion | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 104 to 176 | °F |
| Cylinder Zone 1 Temp. | 284 to 356 | °F |
| Cylinder Zone 2 Temp. | 284 to 356 | °F |
| Cylinder Zone 3 Temp. | 284 to 356 | °F |
| Cylinder Zone 4 Temp. | 284 to 356 | °F |
| Cylinder Zone 5 Temp. | 284 to 356 | °F |

**Extrusion Notes**

Compression Ratio: 2.0 to 4.0
Purging Material: HDPE, PP
LD Ratio: 25:1 or higher

### Notes

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

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## Teknor Apex Asia Pacific PTE. LTD. - Thermoplastic Elastomer


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