



Telcar® GS5035

Teknor Apex Asia Pacific PTE. LTD. - Thermoplastic Elastomer

General Information

General

| | | | |
|-------------------|--|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Asia Pacific | | |
| Uses | • Flexible Grips • Food Containers • Gaskets | • Overmolding • Pacifiers • Seats | • Toothbrush Handles • Tubing • Writing Instruments |
| Appearance | • Natural Color | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|-------------|
| Density / Specific Gravity | 0.982 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 25 | g/10 min | ASTM D1238 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 145 | psi | ASTM D412 |
| Tensile Stress (300% Strain) | 290 | psi | ASTM D412 |
| Tensile Strength (Break) | 435 | psi | ASTM D412 |
| Tensile Elongation (Break) | 450 | % | 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 | 356 to 482 | °F |
| Middle Temperature | 356 to 482 | °F |
| Front Temperature | 356 to 482 | °F |
| Mold Temperature | 104 to 140 | °F |
| Injection Pressure | 1500 to 20000 | psi |
| Injection Rate | Fast | |

Injection Notes

Purging Material: HDPE, PP

| Extrusion | Nominal Value | Unit |
|-----------------------|---------------|------|
| Drying Temperature | 104 to 176 | °F |
| Cylinder Zone 1 Temp. | 338 to 446 | °F |
| Cylinder Zone 2 Temp. | 338 to 446 | °F |
| Cylinder Zone 3 Temp. | 338 to 446 | °F |
| Cylinder Zone 4 Temp. | 338 to 446 | °F |
| Cylinder Zone 5 Temp. | 338 to 446 | °F |

Extrusion Notes

Compression Ratio: 2.5 to 5.0

Purging Material: HDPE, PP

LD Ratio: 25:1 or higher

Notes

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