

# Monprene® CP-32038G CLR

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

## General Information

### Product Description

Monprene CP-32038G CLR is a very soft clear low density thermoplastic elastomer gel designed for a variety of consumer product applications. Monprene CP-32038G CLR, available in CLR and colors, exhibits high flow and is suitable for injection molding.

### General

|                   |  |   |  |
|-------------------|--|---|--|
| Material Status   | • Commercial: Active   |   |  |
| Availability      | • Africa & Middle East<br>• Asia Pacific   | • Europe<br>• Latin America   | • North America  |
| Features          | • Good Adhesion<br>• Good Colorability<br>• Good Flexibility<br>• Good Processability<br>• Good Surface Finish | • Good Toughness<br>• High Elongation<br>• High Flow<br>• Low Density<br>• Low Hardness | • Low Specific Gravity<br>• Resilient<br>• Soft<br>• Without Fillers |
| Uses              | • Consumer Applications<br>• Gaskets<br>• O-rings  | • Overmolding<br>• Rubber Replacement<br>• Seals  | • Soft Touch Applications  |
| RoHS Compliance   | • RoHS Compliant   |   |  |
| Appearance        | • Black<br>• Clear/Transparent   | • Colors Available<br>• Natural Color   |  |
| Forms             | • Pellets  |   |  |
| Processing Method | • Injection Molding  |   |  |

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

| Physical                                  | Nominal Value | Unit     | Test Method |
|---|---------------|----------|-------------|
| Specific Gravity                          | 0.874         |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (125°C/2.16 kg) | 9.0           | g/10 min | ASTM D1238  |
| Elastomers                                | Nominal Value | Unit     | Test Method |
| Tensile Stress <sup>2</sup>               |               |          | ASTM D412   |
| Across Flow : 100% Strain                 | 6.96          | psi      |             |
| Flow : 100% Strain                        | 12.6          | psi      |             |
| Tensile Strength <sup>2</sup>             |               |          | ASTM D412   |
| Across Flow : Break                       | 283           | psi      |             |
| Flow : Break                              | 252           | psi      |             |
| Tensile Elongation <sup>2</sup>           |               |          | ASTM D412   |
| Across Flow : Break                       | 1000          | %        |             |
| Flow : Break                              | 1000          | %        |             |
| Tear Strength <sup>3</sup>                |               |          | ASTM D624   |
| Across Flow                               | 28.0          | lbf/in   |             |
| Flow                                      | 28.0          | lbf/in   |             |
| Compression Set <sup>4</sup>              |               |          | ASTM D395   |
| 73°F, 22 hr                               | 28            | %        |             |
| 158°F, 22 hr                              | 100           | %        |             |
| Hardness                                  | Nominal Value | Unit     | Test Method |
| Durometer Hardness                        |               |          | ASTM D2240  |
| Shore OO, 1 sec, Injection Molded         | 40            |          |             |
| Shore OO, 5 sec, Injection Molded         | 38            |          |             |

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### Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Rear Temperature       | 260 to 320    | °F   |
| Middle Temperature     | 300 to 340    | °F   |
| Front Temperature      | 320 to 360    | °F   |
| Nozzle Temperature     | 340 to 380    | °F   |
| Processing (Melt) Temp | 340 to 380    | °F   |
| Mold Temperature       | 60 to 90      | °F   |
| Injection Pressure     | 200 to 800    | psi  |
| Injection Rate         | Slow-Moderate |      |
| Back Pressure          | 25.0 to 100   | psi  |
| Screw Speed            | 50 to 100     | rpm  |
| Cushion                | 0.150 to 1.00 | in   |

### Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

### Notes

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

<sup>2</sup> Die C, 20 in/min

<sup>3</sup> Die C, 0.79 in/min

<sup>4</sup> Type 1

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