

## TECHNICAL DATA SHEET

# Monprene® CP-10160

Teknor Apex Co.

TPE

## Processing

Injection molding

## Delivery Form

Pellets

## Special Characteristics

Translucent

## Features

Good adhesion, Soft feel

## Chemical Resistance

General chemical resistance

## Applications

General purpose, Sports equipment

## Product Text

### Product Information

Preliminary Data

The Monprene CP-10100 Series of thermoplastic elastomer compounds, available in NAT or colors, from 40 to 90 Shore A, are designed specifically for consumer product applications requiring a soft, rubber-like feel. Monprene CP-10160 is a medium hardness, low density, unfilled grade that is suitable for injection molding.

Adheres to PP

| Property                              | Value | Unit | Standard   |
|---------------------------------------|-------|------|------------|
| Tensile Stress at 100% (across flow)  | 1.65  | MPa  | ISO 37     |
| Tensile Stress at Break (across flow) | 10.4  | MPa  | ISO 37     |
| Tensile Strain at Break (across flow) | 880   | %    | ISO 37     |
| Tear Strength (across flow)           | 22    | kN/m | ISO 34-1   |
| Apparent Shear Viscosity (200 °C)     | 233   | Pas  | ASTM D3835 |

| Processing/Physical Characteristics | Value | Unit    | Standard    |
|-------------------------------------|-------|---------|-------------|
| Melt flow index, MFI                | 4     | g/10min | ASTM D 1238 |
| Temperature                         | 200   | °C      |             |
| Load                                | 5     | kg      |             |

| Mechanical Properties         | Value | Unit | Standard |
|-------------------------------|-------|------|----------|
| Compression set at 70 °C, 24h | 35    | %    | ISO 815  |

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| Mechanical Properties                       | Value         | Unit              | Standard   |
|---------------------------------------------|---------------|-------------------|------------|
| Tear strength, parallel                     | 32            | kN/m              | ISO 34-1   |
| Shore A hardness, 15s                       | 60            |                   | ISO 7619-1 |
| Other Properties                            | Value         | Unit              | Standard   |
| Density                                     | 888           | kg/m <sup>3</sup> | ASTM D 792 |
| Processing Recommendation Injection Molding | Value         | Unit              | Standard   |
| Pre-drying - temperature                    | 65            | °C                |            |
| Pre-drying - time                           | 2 - 4         | h                 |            |
| Melt temperature                            | 182 - 227     | °C                |            |
| Mold temperature                            | 27 - 49       | °C                |            |
| Zone 1                                      | 160 - 177     | °C                |            |
| Zone 2                                      | 182 - 204     | °C                |            |
| Zone 3                                      | 193 - 216     | °C                |            |
| Nozzle temperature                          | 182 - 227     | °C                |            |
| Screw speed                                 | 50 - 100      | rpm               |            |
| Back pressure                               | 0.172 - 0.689 | MPa               |            |