



# Monprene® RG-11140 CLR XRD (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

Monprene RG-11140 CLR is a high performance thermoplastic elastomer, available in NAT and colors, designed for regulated applications including food contact, toys, and children's products. Monprene RG-11140 CLR is a medium hardness, low density, RoHScompliant grade with excellent adhesion to PP and complies with various US FDA regulations and EU directives for food contact. This grade is suitable for injection molding. Please contact Teknor Apex for a regulatory compliance letter.

### General

|                   |   |   |  |
|-------------------|---|---|--|
| Material Status   | • Commercial: Active  |   |  |
| Availability      | • Africa & Middle East<br>• Asia Pacific  | • Europe<br>• Latin America   | • North America  |
| Features          | • Food Contact Acceptable<br>• Good Colorability<br>• Good Mold Release<br>• Good Moldability | • Good Processability<br>• High Flow<br>• Low Density<br>• Low Specific Gravity | • Lubricated<br>• Medium Hardness<br>• Slip<br>• Without Fillers |
| Uses              | • Consumer Applications<br>• Gaskets  | • Handles<br>• Kitchenware  | • Writing Instruments  |
| Agency Ratings    | • EU Food Contact   | • FDA Food Contact  |  |
| RoHS Compliance   | • RoHS Compliant  |   |  |
| Appearance        | • Clear/Transparent   | • Colors Available  | • Natural Color  |
| Forms             | • Pellets   |   |  |
| Processing Method | • Injection Molding   |   |  |

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

| Physical                                  | Nominal Value | Unit     | Test Method |
|---|---------------|----------|-------------|
| Density / Specific Gravity                | 0.880         |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 22            | g/10 min | ASTM D1238  |
| Elastomers                                | Nominal Value | Unit     | Test Method |
| Tensile Strength (Break)                  | 1200          | psi      | ASTM D412   |
| Tensile Elongation (Break)                | 900           | %        | ASTM D412   |
| Hardness                                  | Nominal Value | Unit     | Test Method |
| Durometer Hardness                        |               |          | ASTM D2240  |
| Shore A, 1 sec, Injection Molded          | 41            |          |             |
| Shore A, 5 sec, Injection Molded          | 39            |          |             |

## Processing Information

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature   | 360 to 400    | °F   |
| Middle Temperature | 360 to 400    | °F   |
| Front Temperature  | 360 to 400    | °F   |
| Nozzle Temperature | 360 to 400    | °F   |

# Monprene® RG-11140 CLR XRD (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Processing (Melt) Temp | 360 to 400    | °F   |
| Mold Temperature       | 60 to 90      | °F   |
| Injection Pressure     | 200 to 800    | psi  |
| Injection Rate         | Fast          |      |
| 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.