

**Product Texts**UL Yellow Card Link [E121562-101344609](https://www.ulprospector.com/121562-101344609)

| Processing/Physical Characteristics | Value | Unit  | Test Standard |
|-------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                    |       |       |               |
| Mold Shrinkage, MD                  | 0.6   | mm/mm | ASTM D 955    |
| Mold Shrinkage, TD                  | 0.7   | mm/mm | ASTM D 955    |

| Mechanical properties                    | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Tensile Modulus                          | 4120  | MPa               | ISO 527       |
| Yield stress                             | 74    | MPa               | ISO 527       |
| Yield strain                             | 3.5   | %                 | ISO 527       |
| Stress at break                          | 72    | MPa               | ISO 527       |
| Strain at break                          | 4.8   | %                 | ISO 527       |
| Flexural modulus                         | 3670  | MPa               | ISO 178       |
| Flexural strength                        | 120   | MPa               | ISO 178       |
| Izod impact strength, +23°C, 4mm         | 52    | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod notched impact strength, +23°C, 4mm | 12    | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                         |       |                   |               |
| Tensile Modulus                          | 4130  | MPa               | ASTM D 638    |
| Tensile Strength at Yield                | 76    | MPa               | ASTM D 638    |
| Tensile Strength at Break                | 72    | MPa               | ASTM D 638    |
| Elongation at Yield                      | 3.6   | %                 | ASTM D 638    |
| Elongation at Break                      | 5.1   | %                 | ASTM D 638    |
| Flexural Modulus                         | 4100  | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in              | 120   | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in            | 740   | J/m               | ASTM D 256    |

| Thermal properties                       | Value | Unit  | Test Standard   |
|--|-------|-------|-----------------|
| <b>ISO Data</b>                          |       |       |                 |
| Temp. of deflection under load, 1.80 MPa | 138   | °C    | ISO 75-1/-2     |
| Temp. of deflection under load, 0.45 MPa | 144   | °C    | ISO 75-1/-2     |
| Burning behav. at thickness h            | V-1   | class | IEC 60695-11-10 |
| Thickness tested                         | 3.0   | mm    | -               |
| <b>ASTM Data</b>                         |       |       |                 |
| Coefficient of Thermal Expansion, MD     | 50    | E-6/K | ASTM D 696      |
| Coefficient of Thermal Expansion, TD     | 61.9  | E-6/K | ASTM D 696      |
| DTUL @ 66 psi                            | 144   | °C    | ASTM D 648      |
| DTUL @ 264 psi                           | 139   | °C    | ASTM D 648      |

| Other properties       | Value | Unit              | Test Standard  |
|------------------------|-------|-------------------|----------------|
| Humidity absorption    | 0.13  | %                 | Sim. to ISO 62 |
| Water Absorption, 24hr | 0.09  | %                 | ASTM D 570     |
| Density                | 1290  | kg/m <sup>3</sup> | ASTM D 792     |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 120       | °C   | -             |
| Pre-drying - Time                           | 4         | h    | -             |
| Processing humidity                         | ≤0.02     | %    | -             |
| Melt temperature                            | 305 - 325 | °C   | -             |
| Mold temperature                            | 80 - 110  | °C   | -             |
| Zone 1                                      | 295 - 305 | °C   | -             |
| Zone 2                                      | 310 - 320 | °C   | -             |
| Zone 3                                      | 320 - 330 | °C   | -             |
| Screw speed                                 | 30 - 60   | rpm  | -             |
| Back pressure                               | 0.2 - 0.3 | MPa  | -             |

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America