

Technical Data Sheet

POLYTROPE[®] STR 3567EU-01 CLEAR

Enhanced Polyolefin (Capstock Resin)
Engineering Plastics

Product Description

POLYTROPE STR 3567EU resin is a medium gloss, weatherable, olefin cap resin providing exceptional durability. It is specifically designed for the co-extrusion process as a cap resin over POLYTROPE STR enhanced polyolefin TPO and FR TPO base resins. It is especially suited for thermoformed applications, as it maintains its' smooth surface and uniform gloss through the thermoforming process. POLYTROPE STR 3567EU-01 CLEAR can be used as a clear cap or it can be easily colored. The durability of the cap resin enables it match or exceed the performance of acrylic resins, laminated films, and paint coatings.

General

| | | | |
|-------------------|--|---|---|
| Features | <ul style="list-style-type: none"> • Chemical Resistant • Durable • High Scratch Resistance | <ul style="list-style-type: none"> • Low Temperature Impact Resistance • Recyclable Material • Stain Resistant | <ul style="list-style-type: none"> • Weather Resistant |
| Forms | <ul style="list-style-type: none"> • Pellets | | |
| Processing Method | <ul style="list-style-type: none"> • Coextrusion • Extrusion | <ul style="list-style-type: none"> • Profile Extrusion • Sheet Extrusion | <ul style="list-style-type: none"> • Thermoforming |

Physical

| | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|-------------------------|-------------|
| Density / Specific Gravity ¹ | 0.900 | 0.898 g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 2.5 g/10 min | 2.5 g/10 min | ISO 1133 |

Mechanical

| | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Tensile Stress ² (Yield, 73°F (23°C)) | 6110 psi | 42.1 MPa | ISO 527-2 |
| Tensile Strain ² (Break, 451°F (233°C)) | 200 % | 200 % | ISO 527-2 |
| Flexural Modulus - Chord ³ (73°F (23°C)) | 300000 psi | 2070 MPa | ISO 178 |

Impact

| | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|--------------------|-------------|
| Instrumented Dart Impact 73°F (23°C), Total Energy, Ductile Failure | 410 in·lb | 46.3 J | ASTM D3763 |

Thermal

| | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|--------------------|-------------|
| Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed | 198 °F | 92.2 °C | ISO 75-2/Bf |

Flammability

| | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Flame Rating (0.13 in (3.2 mm), All Colors) | HB | HB | UL 94 |

Optical

| | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Gardner Gloss 60°, 125 mil (3180 µm), Thermoformed, Smooth | 60 to 70 | 60 to 70 | ISO 2813 |

Notes

- ¹ Method A
- ² Type 1, 2.0 in/min (50 mm/min)
- ³ Type 1A, 0.079 in/min (2.0 mm/min)

Notes

These are typical property values not to be construed as specification limits.