

Chemlon® 133 GHU BK155

Teknor Apex Company (Chem Polymer) - Polyamide 66

Friday, June 30, 2017

General Information

General

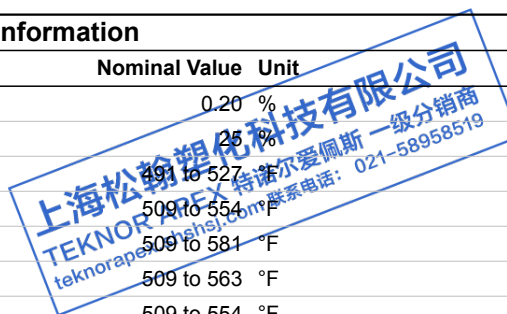
| | |
|------------------------|---|
| Material Status | • Commercial: Active |
| Availability | • Asia Pacific • Europe • North America |
| Filler / Reinforcement | • Glass Fiber, 33% Filler by Weight |
| Appearance | • Black |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|-------------|
| Density | 1.40 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | 0.15 to 0.40 | % | ISO 2577 |
| Water Absorption (73°F, 24 hr) | 0.90 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Yield) | 23200 | psi | ISO 527-2 |
| Tensile Strain (Yield) | 2.5 | % | ISO 527-2 |
| Tensile Strain (Break) | 2.5 | % | ISO 527-2 |
| Flexural Modulus | 1.25E+6 | psi | ISO 178 |
| Flexural Stress | 37700 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact Strength (73°F) | 3.6 | ft-lb/in ² | ISO 180/1A |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (264 psi, Unannealed) | 480 | °F | ISO 75-2/A |
| Melting Temperature | 495 | °F | ASTM D789 |
| CLTE - Flow | 2.8E-5 | in/in/°F | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+14 | ohms·cm | ISO 1325 |
| Dielectric Strength (0.118 in) | 410 | V/mil | ASTM D149 |
| Comparative Tracking Index | > 600 | V | |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.03 in) | HB | | UL 94 |
| Oxygen Index | 25 | % | ISO 4589-2 |
| FMVSS Flammability | PASSED | | FMVSS 302 |
| Additional Information | Nominal Value | Unit | Test Method |
| Color Fastness - delta E after 2500 kJ/m ² exposure | < 3.00 | | SAE J1960 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Suggested Max Moisture | 0.20 | % |
| Suggested Max Regrid | 25 | % |
| Rear Temperature | 491 to 527 | °F |
| Middle Temperature | 509 to 554 | °F |
| Front Temperature | 509 to 581 | °F |
| Nozzle Temperature | 509 to 563 | °F |
| Processing (Melt) Temp | 509 to 554 | °F |



Revision Date: 7/28/2011

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Notes

¹ Typical properties: these are not to be construed as specifications.

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*In U.S. for Vinyls, TPEs, Colorants,
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