# Chemlon® A60XTH

Polyamide 66

Teknor Apex Company (Chem Polymer)

## Message:

A60XTH is a modified nylon 66 grade that contains a heat stabilisation system to extend product life at elevated temperatures. This grade offers excellend toughness coupled with good rigidity.

| General Information | | | |
|---|---|---|---|
| Additive | Impact modifier<br>heat stabilizer | | |
| Features | Impact modification<br>Thermal Stability<br>Good toughness<br>Medium hardness | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.10 | g/cm³ | ISO 1183 |
| Molding Shrinkage [1] | 1.6 - 2.3 | % | Internal method |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 2.3 | % | ISO 62 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 2100 | MPa | ISO 527-2 |
| Tensile Stress | 58.0 | MPa | ISO 527-2 |
| Tensile Strain | | | ISO 527-2 |
| Yield | 6.0 | % | ISO 527-2 |
| Fracture | 30 | % | ISO 527-2 |
| Flexural Modulus | 2000 | MPa | ISO 178 |
| Flexural Stress | 65.0 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | 35 | kJ/m² | ISO 179/1eA |
| Charpy Unnotched Impact Strength | No Break | | ISO 179/1eU |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature | | | |
| 0.45 MPa, not annealed | 185 | °C | ISO 75-2/B |
| 1.8 MPa, not annealed | 70.0 | °C | ISO 75-2/A |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | 1.0E+14 | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+16 | ohms·cm | IEC 60093 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Flame Rating (1.50 mm, Teknor Apex test result) | HB | | UL 94 |
| Oxygen Index | 22 | % | ISO 4589-2 |

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 80.0 | °C |
| Drying Time | 2.0 | hr |
| Rear Temperature | 270 - 290 | °C |
| Middle Temperature | 270 - 290 | °C |
| Front Temperature | 270 - 290 | °C |
| Processing (Melt) Temp | 270 - 290 | °C |
| Mold Temperature | 60.0 - 80.0 | °C |
| Injection Rate | Fast | |
| Back Pressure | Low | |
| Screw Speed | Moderate | |

| Injection instructions |
|---|
| No drying is necessary unless the material has been exposed to air for longer than three hours. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present. |

| NOTE | |
|---|---|
| 1. | Mould shrinkage is significantly influenced by many factors including wall thickness, gating, moulding shape and processing conditions. The range values given are determined from specimen bar mouldings of 1.5mm to 4mm wall thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding). |



## Recommended distributors for this material

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