



# Chemlon® 453 H

Teknor Apex Company - Polyamide 6

## General Information

### General

|                   |                      |          |                 |
|-------------------|----------------------|----------|-----------------|
| Material Status   | • Commercial: Active |          |                 |
| Availability      | • Asia Pacific       | • Europe | • North America |
| Forms             | • Pellets            |          |                 |
| Processing Method | • Injection Molding  |          |                 |

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

| Physical                              | Nominal Value | Unit                  | Test Method |
|---------------------------------------|---------------|-----------------------|-------------|
| Density                               | 1.11          | g/cm <sup>3</sup>     | ISO 1183    |
| Molding Shrinkage                     | 1.7 to 2.2    | %                     | ISO 2577    |
| Mechanical                            | Nominal Value | Unit                  | Test Method |
| Tensile Stress (Yield)                | 7980          | psi                   | ISO 527     |
| Tensile Strain (Yield)                | 3.5           | %                     | ISO 527     |
| Tensile Strain (Break)                | 40            | %                     | ISO 527     |
| Flexural Modulus                      | 305000        | psi                   | ISO 178/A   |
| Flexural Stress                       | 9430          | psi                   | ISO 178/A   |
| Impact                                | Nominal Value | Unit                  | Test Method |
| Charpy Notched Impact Strength (73°F) | 8.6           | ft·lb/in <sup>2</sup> | ISO 179/1eA |
| Notched Izod Impact Strength (73°F)   | 9.5           | ft·lb/in <sup>2</sup> | ISO 180     |
| Thermal                               | Nominal Value | Unit                  | Test Method |
| Melting Temperature                   | 428           | °F                    | ISO 11357   |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.