



# PTS- Creamid B3H7G10\*9000

Teknor Apex Company (Chem Polymer) - Polyamide 6

## General Information

### General

|                 |                                          |                             |                 |
|-----------------|------------------------------------------|-----------------------------|-----------------|
| Material Status | • Preliminary Data                       |                             |                 |
| Availability    | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Forms           | • Pellets                                |                             |                 |

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

| Physical                         | Dry     | Conditioned | Unit                  | Test Method |
|----------------------------------|---------|-------------|-----------------------|-------------|
| Density                          | 1.59    | 1.59        | g/cm <sup>3</sup>     | ISO 1183    |
| Molding Shrinkage                |         |             |                       | ISO 294-4   |
| Across Flow                      | 1.1     | 1.1         | %                     |             |
| Flow                             | 0.50    | 0.50        | %                     |             |
| Water Absorption (24 hr, 73°F)   | 0.50    | 0.50        | %                     | ISO 62      |
| Water Absorption                 |         |             |                       | ISO 62      |
| Saturation, 73°F                 | 4.1     | 4.1         | %                     |             |
| Mechanical                       | Dry     | Conditioned | Unit                  | Test Method |
| Tensile Modulus                  | 2.41E+6 | 1.83E+6     | psi                   | ISO 527-2   |
| Tensile Stress (Break)           | 32600   | 24700       | psi                   | ISO 527-2   |
| Tensile Strain (Break)           | 3.4     | 3.9         | %                     | ISO 527-2   |
| Flexural Modulus (73°F)          | 1.99E+6 | 1.55E+6     | psi                   | ISO 178     |
| Impact                           | Dry     | Conditioned | Unit                  | Test Method |
| Charpy Notched Impact Strength   |         |             |                       | ISO 179     |
| 73°F                             | 5.7     | 6.2         | ft·lb/in <sup>2</sup> |             |
| Charpy Unnotched Impact Strength |         |             |                       | ISO 179     |
| 73°F                             | 36      | 36          | ft·lb/in <sup>2</sup> |             |
| Notched Izod Impact Strength     |         |             |                       | ISO 180     |
| 73°F                             | 5.7     | 6.7         | ft·lb/in <sup>2</sup> |             |
| Thermal                          | Dry     | Conditioned | Unit                  | Test Method |
| Heat Deflection Temperature      |         |             |                       | ISO 75-2/B  |
| 66 psi, Unannealed               | 428     | 428         | °F                    |             |
| Heat Deflection Temperature      |         |             |                       | ISO 75-2/A  |
| 264 psi, Unannealed              | 419     | 419         | °F                    |             |
| Vicat Softening Temperature      |         |             |                       |             |
| --                               | 433     | 433         | °F                    | ISO 306/A   |
| --                               | 424     | 424         | °F                    | ISO 306/B   |
| Melting Temperature              | 432     | 432         | °F                    | ISO 11357-3 |
| Flammability                     | Dry     | Conditioned | Unit                  | Test Method |
| Flame Rating                     |         |             |                       | UL 94       |
| 0.031 in                         | HB      | --          |                       |             |
| 0.06 in                          | HB      | --          |                       |             |
| 0.13 in                          | HB      | --          |                       |             |

## Processing Information

| Injection          | Dry        | Unit |
|--------------------|------------|------|
| Drying Temperature | 176        | °F   |
| Drying Time        | 2.0 to 4.0 | hr   |
| Nozzle Temperature | 518        | °F   |

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| Injection              | Dry        | Unit |
|------------------------|------------|------|
| Processing (Melt) Temp | 491 to 527 | °F   |
| Mold Temperature       | 158 to 212 | °F   |

Notes

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