



# Creamid® A3H7G12.2S\*9217

Teknor Apex Company - Polyamide 66 + PA 6I/6T

## 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                           | 1.73    | 1.73        | g/cm <sup>3</sup>     | ISO 1183    |
| Molding Shrinkage                 |         |             |                       | ISO 294-4   |
| Across Flow                       | 0.40    | 0.40        | %                     |             |
| Flow                              | 0.20    | 0.20        | %                     |             |
| Water Absorption (24 hr, 73°F)    | 0.30    | 0.30        | %                     | ISO 62      |
| Water Absorption                  |         |             |                       | ISO 62      |
| Saturation, 73°F                  | 2.3     | 2.3         | %                     |             |
| Mechanical                        | Dry     | Conditioned | Unit                  | Test Method |
| Tensile Modulus                   | 3.05E+6 | 2.90E+6     | psi                   | ISO 527-1   |
| Tensile Stress (Break)            | 37700   | 34100       | psi                   | ISO 527-2   |
| Tensile Strain (Break)            | 3.0     | 3.0         | %                     | ISO 527-2   |
| Flexural Modulus (73°F)           | 2.47E+6 | 2.32E+6     | psi                   | ISO 178     |
| Flexural Stress                   | 50800   | 50000       | psi                   | ISO 178     |
| Impact                            | Dry     | Conditioned | Unit                  | Test Method |
| Charpy Notched Impact Strength    |         |             |                       | ISO 179     |
| 73°F                              | 6.2     | 6.2         | ft·lb/in <sup>2</sup> |             |
| Charpy Unnotched Impact Strength  |         |             |                       | ISO 179     |
| -22°F                             | 33      | 33          | ft·lb/in <sup>2</sup> |             |
| 73°F                              | 33      | 33          | ft·lb/in <sup>2</sup> |             |
| Notched Izod Impact Strength      |         |             |                       | ISO 180     |
| 73°F                              | 6.2     | 6.2         | ft·lb/in <sup>2</sup> |             |
| Thermal                           | Dry     | Conditioned | Unit                  | Test Method |
| Deflection Temperature Under Load |         |             |                       | ISO 75-2/B  |
| 66 psi, Unannealed                | 491     | 491         | °F                    |             |
| Deflection Temperature Under Load |         |             |                       | ISO 75-2/A  |
| 264 psi, Unannealed               | 401     | 401         | °F                    |             |
| Vicat Softening Temperature       |         |             |                       |             |
| --                                | 473     | 473         | °F                    | ISO 306/B   |
| --                                | 482     | 482         | °F                    | ISO 306/A   |
| Melting Temperature               | 509     | 509         | °F                    | ISO 11357-3 |
| Electrical                        | Dry     | Conditioned | Unit                  | Test Method |
| Comparative Tracking Index        | --      | 600         | V                     | IEC 60112   |
| Flammability                      | Dry     | Conditioned | Unit                  | Test Method |
| Flame Rating                      |         |             |                       | UL 94       |
| 0.031 in                          | HB      | --          |                       |             |
| 0.06 in                           | HB      | --          |                       |             |
| 0.13 in                           | HB      | --          |                       |             |

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### Processing Information

| Injection              | Dry        | Unit |
|------------------------|------------|------|
| Drying Temperature     | 176        | °F   |
| Drying Time            | 2.0 to 4.0 | hr   |
| Nozzle Temperature     | 554        | °F   |
| Processing (Melt) Temp | 536 to 572 | °F   |
| Mold Temperature       | 176 to 230 | °F   |

### Notes

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