

# SCANAMID 6 B12^ NH9L

Polyamide 6

Polykemi AB

Message:

Flame retardant halogen free

| General Information                      |                 |                   |                |
|------------------------------------------|-----------------|-------------------|----------------|
| Additive                                 | Flame Retardant |                   |                |
| Features                                 | Flame Retardant |                   |                |
|                                          | Halogen Free    |                   |                |
| Physical                                 | Nominal Value   | Unit              | Test Method    |
| Density                                  | 1.14            | g/cm <sup>3</sup> | ISO 1183       |
| Molding Shrinkage                        |                 |                   | ISO 294-4      |
| Across Flow                              | 1.0 to 1.2      | %                 |                |
| Flow                                     | 1.0 to 1.2      | %                 |                |
| Hardness                                 | Nominal Value   | Unit              | Test Method    |
| Durometer Hardness (Shore D, 15 sec)     | 73              |                   | ASTM D2240     |
| Mechanical                               | Nominal Value   | Unit              | Test Method    |
| Tensile Stress                           | 71.0            | MPa               | ISO 527-2      |
| Tensile Strain (Break)                   | 12              | %                 | ISO 527-2      |
| Flexural Modulus (23°C)                  | 2500            | MPa               | ISO 178        |
| Flexural Stress                          | 90.0            | MPa               | ISO 178        |
| Impact                                   | Nominal Value   | Unit              | Test Method    |
| Charpy Notched Impact Strength           |                 |                   | ISO 179        |
| -20°C                                    | 6.0             | kJ/m <sup>2</sup> |                |
| 23°C                                     | 7.0             | kJ/m <sup>2</sup> |                |
| Notched Izod Impact Strength (23°C)      | 7.0             | kJ/m <sup>2</sup> | ISO 180/4A     |
| Thermal                                  | Nominal Value   | Unit              | Test Method    |
| Heat Deflection Temperature <sup>1</sup> |                 |                   |                |
| 0.45 MPa, Unannealed                     | 180             | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                      | 63.0            | °C                | ISO 75-2/A     |
| Vicat Softening Temperature              |                 |                   |                |
| --                                       | 215             | °C                | ISO 306/A50    |
| --                                       | 200             | °C                | ISO 306/B50    |
| Flammability                             | Nominal Value   | Unit              | Test Method    |
| Flame Rating (1.60 mm)                   | V-2             |                   | UL 94          |
| Glow Wire Ignition Temperature (2.00 mm) | 960             | °C                | IEC 60695-2-13 |
| NOTE                                     |                 |                   |                |
| 1.                                       | 120°C/hr        |                   |                |

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