

# SCANAMID 6 B32<sup>^</sup>E

Polyamide 6  
Polykemi AB

Message:  
Modified

| General Information                         |          |             |                   |                |
|---------------------------------------------|----------|-------------|-------------------|----------------|
| Physical                                    | Dry      | Conditioned | Unit              | Test Method    |
| Density                                     | 1.10     | --          | g/cm <sup>3</sup> | ISO 1183       |
| Molding Shrinkage                           |          |             |                   | ISO 294-4      |
| Across Flow                                 | 1.5      | --          | %                 |                |
| Flow                                        | 1.3      | --          | %                 |                |
| Hardness                                    | Dry      | Conditioned | Unit              | Test Method    |
| Durometer Hardness<br>(Shore D, 15 sec)     | 75       | --          |                   | ASTM D2240     |
| Mechanical                                  | Dry      | Conditioned | Unit              | Test Method    |
| Tensile Stress                              | 70.0     | 50.0        | MPa               | ISO 527-2      |
| Tensile Strain                              |          |             |                   | ISO 527-2      |
| Yield                                       | 4.0      | 30          | %                 |                |
| Break                                       | 75       | > 100       | %                 |                |
| Flexural Modulus (23°C)                     | 2300     | 1300        | MPa               | ISO 178        |
| Flexural Stress                             | 90.0     | 40.0        | MPa               | ISO 178        |
| Impact                                      | Dry      | Conditioned | Unit              | Test Method    |
| Charpy Notched Impact<br>Strength           |          |             |                   | ISO 179        |
| -20°C                                       | 11       | --          | kJ/m <sup>2</sup> |                |
| 23°C                                        | 20       | 50          | kJ/m <sup>2</sup> |                |
| Thermal                                     | Dry      | Conditioned | Unit              | Test Method    |
| Heat Deflection<br>Temperature <sup>1</sup> |          |             |                   |                |
| 0.45 MPa, Unannealed                        | 175      | --          | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                         | 60.0     | --          | °C                | ISO 75-2/A     |
| Vicat Softening<br>Temperature              | 195      | --          | °C                | ISO 306/B50    |
| Flammability                                | Dry      | Conditioned | Unit              | Test Method    |
| Flame Rating (1.60 mm)                      | HB       | --          |                   | UL 94          |
| Glow Wire Ignition<br>Temperature (2.00 mm) | 650      | --          | °C                | IEC 60695-2-13 |
| NOTE                                        |          |             |                   |                |
| 1.                                          | 120°C/hr |             |                   |                |

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