

# Pebax® 7033 SP 01

Polyether Block Amide

Arkema

## Message:

Polyether block amide Pebax® 7033 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SP grade has been developed to be heat and UV resistant.

| General Information            |                                             |                   |                 |
|--------------------------------|---------------------------------------------|-------------------|-----------------|
| Features                       | Good UV Resistance                          |                   |                 |
|                                | High Heat Resistance                        |                   |                 |
| Uses                           | Fasteners                                   |                   |                 |
|                                | Footwear                                    |                   |                 |
|                                | Sporting Goods                              |                   |                 |
| Multi-Point Data               | Creep Modulus vs. Time (ISO 11403-1)        |                   |                 |
|                                | Isochronous Stress vs. Strain (ISO 11403-1) |                   |                 |
|                                | Isothermal Stress vs. Strain (ISO 11403-1)  |                   |                 |
|                                | Secant Modulus vs. Strain (ISO 11403-1)     |                   |                 |
|                                | Shear Modulus vs. Temperature (ISO 11403-1) |                   |                 |
|                                | Viscosity vs. Shear Rate (ISO 11403-2)      |                   |                 |
| Physical                       | Nominal Value                               | Unit              | Test Method     |
| Density                        | 1.01                                        | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage <sup>1</sup> |                                             |                   | Internal Method |
| Across Flow : 24 hr, 4.00 mm   | 1.5                                         | %                 |                 |
| Flow : 24 hr, 4.00 mm          | 1.2                                         | %                 |                 |
| Water Absorption               |                                             |                   | ISO 62          |
| 23°C, 24 hr                    | 1.1                                         | %                 |                 |
| Equilibrium, 23°C, 50% RH      | 0.70                                        | %                 |                 |
| Hardness                       | Nominal Value                               | Unit              | Test Method     |
| Shore Hardness                 |                                             |                   | ISO 868         |
| Shore D                        | 69                                          |                   |                 |
| Shore D, 15 sec                | 61                                          |                   |                 |
| Mechanical                     | Nominal Value                               | Unit              | Test Method     |
| Tensile Stress (Break)         | 54.0                                        | MPa               | ISO 527-2       |
| Tensile Strain (Break)         | > 350                                       | %                 | ISO 527-2       |
| Flexural Modulus               | 390                                         | MPa               | ISO 178         |
| Impact                         | Nominal Value                               | Unit              | Test Method     |
| Charpy Notched Impact Strength |                                             |                   | ISO 179         |

| -30°C, Complete Break            | 20            | kJ/m <sup>2</sup> |             |
|----------------------------------|---------------|-------------------|-------------|
| 23°C, Partial Break              | 120           | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength |               |                   | ISO 179     |
| -30°C                            | No Break      |                   |             |
| 23°C                             | No Break      |                   |             |
| Thermal                          | Nominal Value | Unit              | Test Method |
| Vicat Softening Temperature      | 164           | °C                | ISO 306     |
| Melting Temperature              | 172           | °C                | ISO 11357-3 |
| Injection                        | Nominal Value | Unit              |             |
| Drying Temperature               | 70.0 to 80.0  | °C                |             |
| Drying Time                      | 5.0 to 7.0    | hr                |             |
| Processing (Melt) Temp           | 230 to 290    | °C                |             |
| Mold Temperature                 | 25.0 to 60.0  | °C                |             |
| Extrusion                        | Nominal Value | Unit              |             |
| Drying Temperature               | 70.0 to 80.0  | °C                |             |
| Drying Time                      | 5.0 to 7.0    | hr                |             |
| Melt Temperature                 | 220 to 250    | °C                |             |
| NOTE                             |               |                   |             |
| 1.                               | Mold at 40°C  |                   |             |

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