

# Pebax® 3533 SA 01 MED

Polyether Block Amide

Arkema

## Message:

Polyether block amide PEBAX® 3533 SA 01 MED is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This grade offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices. PEBAX® 3533 SA 01 MED also offers an excellent combination of properties such as: kink resistance, low friction coefficient and superior dynamic response. Upon request letters regarding USP Class VI testing can be provided.

| General Information              |                                 |                   |                 |
|----------------------------------|---------------------------------|-------------------|-----------------|
| Features                         | Kink Resistant                  |                   |                 |
|                                  | Low Friction                    |                   |                 |
| Uses                             | Medical/Healthcare Applications |                   |                 |
| Processing Method                | Extrusion                       |                   |                 |
|                                  | Injection Molding               |                   |                 |
| Physical                         | Nominal Value                   | Unit              | Test Method     |
| Density                          | 1.00                            | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage <sup>1</sup>   |                                 |                   | Internal Method |
| Across Flow : 24 hr, 4.00 mm     | 0.80                            | %                 |                 |
| Flow : 24 hr, 4.00 mm            | 0.50                            | %                 |                 |
| Water Absorption                 |                                 |                   | ISO 62          |
| 23°C, 24 hr                      | 1.2                             | %                 |                 |
| Equilibrium, 23°C, 50% RH        | 0.40                            | %                 |                 |
| Hardness                         | Nominal Value                   | Unit              | Test Method     |
| Shore Hardness                   |                                 |                   | ISO 868         |
| Shore A                          | 82                              |                   |                 |
| Shore A, 15 sec                  | 80                              |                   |                 |
| Shore D                          | 33                              |                   |                 |
| Shore D, 15 sec                  | 25                              |                   |                 |
| Mechanical                       | Nominal Value                   | Unit              | Test Method     |
| Tensile Stress (Break)           | 39.0                            | MPa               | ISO 527-2       |
| Tensile Strain (Break)           | > 600                           | %                 | ISO 527-2       |
| Flexural Modulus                 | 21.0                            | MPa               | ISO 178         |
| Impact                           | Nominal Value                   | Unit              | Test Method     |
| Charpy Notched Impact Strength   |                                 |                   | ISO 179         |
| -30°C                            | No Break                        |                   |                 |
| 23°C                             | No Break                        |                   |                 |
| Charpy Unnotched Impact Strength |                                 |                   | ISO 179         |
| -30°C                            | No Break                        |                   |                 |

| 23°C                        | No Break      |      |             |
|-----------------------------|---------------|------|-------------|
| Thermal                     | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 77.0          | °C   | ISO 306     |
| Melting Temperature         | 144           | °C   | ISO 11357-3 |
| Injection                   | Nominal Value | Unit |             |
| Drying Temperature          | 55.0 to 65.0  | °C   |             |
| Drying Time                 | 4.0 to 8.0    | hr   |             |
| Processing (Melt) Temp      | 180 to 240    | °C   |             |
| Mold Temperature            | 10.0 to 30.0  | °C   |             |
| Extrusion                   | Nominal Value | Unit |             |
| Drying Temperature          | 55.0 to 65.0  | °C   |             |
| Drying Time                 | 4.0 to 8.0    | hr   |             |
| Melt Temperature            | 190 to 220    | °C   |             |
| NOTE                        |               |      |             |
| 1.                          | Mold at 40°C  |      |             |

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