

PEBAX®

7033 SA 01

Polyether block amide **Pebax® 7033 SA 01 resin** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is suitable for food contact applications.

| PROPERTIES | DRY / COND | UNIT | TEST STANDARD |
|--|---------------|----------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | | |
| Molding Shrinkage, parallel | 0.9 / * | % | ISO 294-4, 2577 |
| Molding Shrinkage, normal | 1.1 / * | % | ISO 294-4, 2577 |
| MECHANICAL PROPERTIES | | | |
| Tensile Modulus | 414 / 384 | MPa | ISO 527-1/-2 |
| | 60000 / 55700 | psi | |
| Yield Stress | 23 / 22 | MPa | ISO 527-1/-2 |
| | 3340 / 3190 | psi | |
| Yield Strain | 22 / 20 | % | ISO 527-1/-2 |
| Nominal Strain at Break | >50 / >50 | % | ISO 527-1/-2 |
| Shore D Hardness, after 15 s | 61 / * | - | ISO 868 |
| Charpy Impact Strength, +23°C | - / No Break | kJ/m ² | ISO 179/1eU |
| Charpy Impact Strength, -30°C | - / No Break | kJ/m ² | ISO 179/1eU |
| Charpy Notched Impact Strength, +23°C | - / 120 | kJ/m ² | ISO 179/1eA |
| | - / 57.1 | ftlb/in ² | |
| Charpy Notched Impact Strength, -30°C | - / 20 | kJ/m ² | ISO 179/1eA |
| | - / 9.51 | ftlb/in ² | |
| THERMAL PROPERTIES | | | |
| Melting Temperature, 10°C/min | 172 / * | °C | ISO 11357-1/-3 |
| Vicat Softening Temperature, 50°C/h 50N | 106 / * | °C | ISO 306 |
| | 223 / * | °F | |
| OTHER PROPERTIES | | | |
| Water Absorption, 23°C, immersion, equilibrium | 1.1 / * | % | ISO 62 |
| Humidity Absorption, 23°C, RH50%, equilibrium | 0.7 / * | % | ISO 62 |
| Density | 1010 / - | kg/m ³ | ISO 1183 |
| | 1.01 / - | g/cm ³ | |

MAIN APPLICATIONS: • Athletic foot wear components

• Food tubing

• Note: this grade is not recommended by Arkema for usage in medical applications. For such applications Pebax® SA 01 MED should be used

PACKAGING:

PEBAX® 7033 SA 01

This grade is delivered dried in sealed packaging (20 or 25 kg bags) ready to be processed.

SHELF LIFE:

Two years from the delivery. For any use above this limit, please refer to our technical services.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 260°C / 290°C.
- Typical mold temperature : 25 – 60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 5-7 hours at 70-80°C.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 220°C / 235°C / 250°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 5-7 hours at 70-80°C.

| | |
|--|---|
| PROCESSING Injection Molding, Other Extrusion | Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com |
| DELIVERY FORM Pellets | Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com |
| SPECIAL CHARACTERISTICS Heat Stabilized | |
| REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa | |

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