

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.

| Main Characteristics | Value | Unit | Test Method |
|--|---|--|-----------------|
| Density | 1.01 | g/cm ³ | ISO 1183 |
| Water Absorption at Equilibrium At 20°C and 50 % RH | 0.7 | % | ISO 62 |
| Water Absorption At 23°C and 24 h in water | 0.9 | % | |
| Melting Point | 172 | °C | ISO 11357 |
| Vicat Point Under 1 daN | 164 | °C | ISO 306 |
| Shrinkage (after 24h, 4 mm, mould at 40°C) // ⊥ | 1.2 1.5 | % % | Internal method |
| Hardness Shore (*) Instantaneous After 15 s | 69 61 | Shore D Shore D | |
| Tensile Test (*) Stress at Break Strain at Break | 54 >350 | MPa % | ASTM D 638 |
| Flexural Modulus (*) | 390 | MPa | ISO 178 |
| Charpy Impact Unnotched 23°C Unnotched -30°C V-notched 23°C V-notched -30°C | No break No break 120^(p) 20^(c) | kJ/m² kJ/m² kJ/m² kJ/m² | ISO 179 |

(*) Samples conditioned 15 days at 23°C - 50 % R.H.

(p) = Partial Break; (c) = Complete Break

| Processing Conditions | Typical Values |
|--|-----------------------|
| Drying (*) : Time / Temperature | 5-7 hours / 70-80°C |
| Injection Temperature : Min / Recommended / Max | 230°C / 260°C / 290°C |
| Extrusion Temperature : Min / Recommended / Max | 220°C / 235°C / 250°C |
| Mold Temperature : | 25-60°C |

(*) Pebax® is delivered dried in sealed packaging ready to be processed. Drying is only necessary for bags opened for more than 2 hours.

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