# PA6 | KEPAMID 1915SM7 | PA6 & HMWPE Alloy grade

- KEPAMID 1915SM7 is Polyamide 6 & High Molecular Weight Polyethylene alloy grade.
- This grade has more improved friction & wear resistance than Polyamide 6
- Also, This grade has a lower water absorption than Polyamide 6

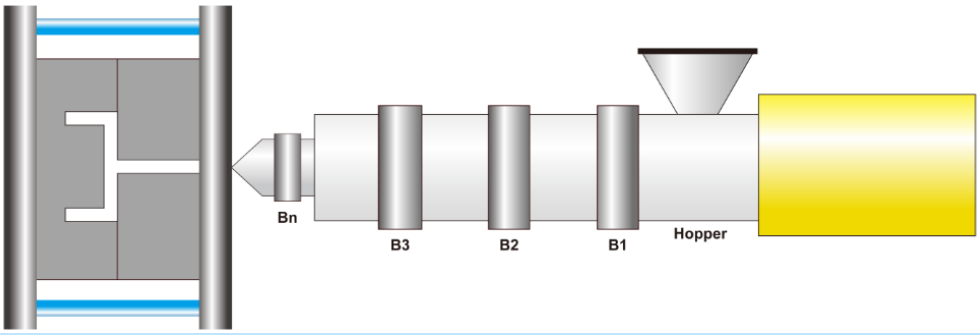
| Physical properties | Test Standard | Unit | Value |
|---|---|---|---|
| Filler contents | ISO 1172 | % | 15 |
| Specific gravity | ISO 1183 | - | 1.16 |
| Water absorption(23 ℃, 50 %RH) | ISO 62 | % | 0.5 |

| Mechanical properties | Test Standard | Unit | Value |
|---|---|---|---|
| Tensile strength | ASTM D 638 | MPa | 50 |
| Strain at break | ASTM D 638 | % | > 90 |
| Flexural strength | ASTM D 790 | MPa | 65 |
| Flexural modulus | ASTM D 790 | MPa | 2,500 |
| Izod impact strength(Notched) | ASTM D 256 | J/m | 280 |

| Thermal properties | Test Standard | Unit | Value |
|---|---|---|---|
| Melting point | ISO 11357 | ℃ | 220 |
| Melt flow index (MFI) | ISO 1133 | g/10min | 0.2 |
| MFI test temperature | ISO 1133 | ℃ | 235 |
| MFI test load | ISO 1133 | kg | 2.16 |
| Heat deflection temperature(1.8 MPa) | ASTM D 648 | ℃ | 67 |
| Flammability(t = 0.8 ㎜) | UL 94 | Class | HB |

**Rev.3(2018-11-01)**

# Injection molding conditions




## Pre-drying(Suggested max. moisture : 0.1 %)

It is recommend to dry material at 80 ºC(176 ˚F) for 3~4 h at dehumidified dryer.

## Temperature

Mold temperature : 70 ℃ ~ 80 ℃ ( 158 ˚F ~ 176 ˚F)
Barrel temperature : 240 ℃ ~ 250 ℃ (464 ˚F ~ 482 ˚F)

| Mold | Bn (Nozzle) | B3 (Metering) | B2 (Compression) | B1 (Feeding) | Hopper |
|---|---|---|---|---|---|
| 70 ℃ ~ 80 ℃ | 250 ℃ | 250 ℃ | 245 ℃ ~ 250℃ | 240 ℃ ~ 245℃ | 70 ℃ ~ 80 ℃ |
| 158 ˚F ~ 176 ˚F | 482 ˚F | 482 ˚F | 473 ˚F ~ 482 ˚F | 464 ˚F ~ 473 ˚F | 158 ˚F ~ 176 ˚F |

## Plastification

Screw speed : 60 ~ 80 rpm
Back pressure : 30 kg/cm²

## Contact information

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## Disclaimer