

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

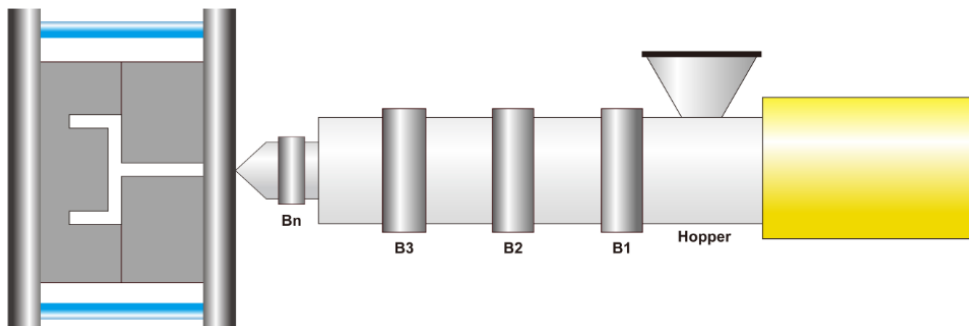
Physical properties	Test Standard	Unit	Value
Filler contents	ISO 1172	%	15
Specific gravity	ISO 1183	-	1.16
Water absorption(23 °C, 50 %RH)	ISO 62	%	0.5

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	°C	220
Melt flow index (MFI)	ISO 1133	g/10min	0.2
MFI test temperature	ISO 1133	°C	235
MFI test load	ISO 1133	kg	2.16
Heat deflection temperature(1.8 MPa)	ASTM D 648	°C	67
Flammability(t = 0.8 mm)	UL 94	Class	HB

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Injection molding conditions



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

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

Temperature

Mold temperature : 70 °C ~ 80 °C (158 °F ~ 176 °F)

Barrel temperature : 240 °C ~ 250 °C (464 °F ~ 482 °F)

Mold	Bn (Nozzle)	B3 (Metering)	B2 (Compression)	B1 (Feeding)	Hopper
70 °C ~ 80 °C	250 °C	250 °C	245 °C ~ 250 °C	240 °C ~ 245 °C	70 °C ~ 80 °C
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

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Disclaimer

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