

Generic Nylon 6 Alloy

Polyamide 6 Alloy

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Nylon 6 Alloy
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.13 - 1.14	g/cm ³	ASTM D792
--	1040	kg/m ³	ISO 1183 ¹
Melt volume-flow rate	1.34	cm ³ /10min	ISO 1133 ²
Molding Shrinkage - Flow (23°C)	0.80 - 1.2	%	ASTM D955
Water Absorption			
23°C, 24 hr	1.5	%	ASTM D570
Saturation	4.8	%	ISO 62 ³
Balance	1.5	%	ISO 62 ⁴
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	840	MPa	ISO 527-2 ⁵
Tensile Stress			
Yield	40.0	MPa	ISO 527-2 ⁶
Fracture, 23°C	74.8 - 85.8	MPa	ASTM D638
Tensile Strain			
Yield	5.5	%	ISO 527-2 ⁷
Fracture, 23°C	10 - 84	%	ASTM D638
Tensile Creep Modulus			
1 hr	1290	MPa	ISO 899-1 ⁸
1000 hr	601	MPa	ISO 899-1
Flexural Modulus (23°C)	2650 - 3030	MPa	ASTM D790
Flexural Strength (23°C)	101 - 118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43 - 82	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	55.0 - 65.1	°C	ASTM D648
Melting Temperature			
--	215 - 220	°C	
-- ⁹	220	°C	ISO 11357-3 ¹⁰
Electrical	Nominal Value	Unit	Test Method
Electric strength	37	kV/mm	IEC 60243-1 ¹¹

Injection	Nominal Value	Unit
Drying Temperature	81.7 - 82.2	°C
Drying Time	4.0 - 4.1	hr
Mold Temperature	71.0 - 72.1	°C

Injection instructions

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NOTE

1.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
2.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
3.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
4.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
5.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
6.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
7.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
8.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
9.	10 °C/min
10.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
11.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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