

Generic Nylon 11

Polyamide 11

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Nylon 11
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.02 - 1.05	g/cm ³	ASTM D792
--	1060	kg/m ³	ISO 1183 ¹
Melt volume-flow rate	1.69	cm ³ /10min	ISO 1133 ²
Water Absorption			
23°C, 24 hr	0.29 - 0.31	%	ASTM D570
Saturated, 23°C	1.1 - 1.9	%	ASTM D570
Saturation	1.9	%	ISO 62 ³
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	78 - 108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1110	MPa	ISO 527-2 ⁴
Tensile Stress			
Yield	35.5	MPa	ISO 527-2 ⁵
Fracture, 23°C	40.0 - 69.0	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	10 - 17	%	ASTM D638
Yield	23	%	ISO 527-2 ⁶
Fracture, 23°C	280 - 410	%	ASTM D638
Tensile Elongation at Break	49 - 50	%	ISO 527-2 ⁷
Flexural Modulus (23°C)	288 - 1380	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA ⁸
-30°C	8.54	kJ/m ²	ISO 179/1eA
23°C	9.10	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	40 - 270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa	137	°C	ISO 75-2 ⁹
1.8 MPa, not annealed	41.0 - 54.6	°C	ASTM D648
1.8 MPa	47.6	°C	ISO 75-2 ¹⁰

Vicat Softening Temperature (50°C/h, B (50N))	159	°C	ISO 306 ¹¹
Melting Temperature			
--	186	°C	
-- ¹²	187	°C	ISO 11357-3 ¹³
CLTE - Flow	9.8E-5	cm/cm/°C	ISO 11359-2 ¹⁴
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+11 - 1.0E+14	ohms	IEC 60093 ¹⁵
Volume Resistivity	1.0E+2 - 1.3E+12	ohms·m	IEC 60093 ¹⁶
Electric strength	30	kV/mm	IEC 60243-1 ¹⁷
Dielectric Constant (23°C)	3.10 - 3.90		ASTM D150
Dissipation Factor (23°C)	0.044 - 0.048		ASTM D150
Comparative Tracking Index	596		IEC 60112 ¹⁸
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	24	%	ISO 4589-2 ¹⁹
Injection	Nominal Value	Unit	
Drying Temperature	79.3 - 80.0	°C	
Drying Time	3.9 - 12	hr	
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.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
10.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
11.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
12.	10 °C/min
13.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???

14.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
15.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
16.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
17.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
18.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
19.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???

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