

Generic Nylon 46

Polyamide 46

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Nylon 46
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.17 - 1.36	g/cm³	ASTM D792
23°C	1.18 - 1.19	g/cm³	ISO 1183
Molding Shrinkage			
Flow: 23°C	1.5 - 1.8	%	ASTM D955
23°C	1.2 - 2.0	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr	1.0 - 1.5	%	ISO 62
Equilibrium, 23°C, 50% RH	3.7	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	960 - 12100	MPa	ISO 527-2
Tensile Stress			
Yield, 23°C	54.6 - 100	MPa	ISO 527-2
Fracture, 23°C	37.9 - 214	MPa	ASTM D638
Fracture, 23°C	53.0 - 170	MPa	ISO 527-2
Tensile Strain			
Yield, 23°C	2.5 - 25	%	ISO 527-2
Fracture, 23°C	2.0 - 9.5	%	ASTM D638
Fracture, 23°C	0.60 - 8.1	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	39 - 50	%	ISO 527-2
Flexural Modulus			
23°C	2210 - 5740	MPa	ASTM D790
23°C	886 - 11300	MPa	ISO 178
Flexural Strength			
23°C	62.1 - 352	MPa	ASTM D790
23°C	89.0 - 125	MPa	ISO 178
Coefficient of Friction	0.060 - 0.32		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.9 - 36	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	39 - 110	kJ/m²	ISO 179
Notched Izod Impact			

23°C	78 - 150	J/m	ASTM D256
23°C	5.1 - 36	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	158 - 192	°C	ISO 75-2/A
Continuous Use Temperature	150 - 151	°C	ASTM D794
Linear thermal expansion coefficient			ISO 11359-2
Flow	2.3E-5 - 9.0E-5	cm/cm/°C	ISO 11359-2
Lateral	9.0E-5 - 1.1E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity (23°C)	0.30 - 14	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+6 - 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength (23°C)	15 - 25	kV/mm	IEC 60243-1
Relative Permittivity (23°C)	5.40		IEC 60250
Comparative Tracking Index	394 - 600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 80.6	°C	
Drying Time	4.5 - 7.5	hr	
Suggested Max Moisture	0.050 - 0.053	%	
Rear Temperature	300	°C	
Middle Temperature	310	°C	
Front Temperature	310	°C	
Nozzle Temperature	290 - 305	°C	
Processing (Melt) Temp	310 - 313	°C	
Mold Temperature	99.8 - 130	°C	
Back Pressure	5.85 - 6.00	MPa	
Injection instructions			

This data represents typical values that have been calculated from all products classified as: Generic Nylon 46This information is provided for comparative purposes only.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT