

Generic Nylon 610

Polyamide 610

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.07 - 1.08	g/cm³	ASTM D792
23°C	1.03 - 1.09	g/cm³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.28 - 2.5	%	ASTM D955
23°C	0.87 - 1.6	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.26 - 1.4	%	ASTM D570
Saturated, 23°C	1.8 - 4.0	%	ISO 62
Equilibrium, 23°C, 50% RH	0.37 - 1.7	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	35.0 - 130	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2140 - 2800	MPa	ASTM D638
23°C	450 - 6470	MPa	ISO 527-2
Tensile Stress			
Yield, 23°C	34.9 - 65.3	MPa	ISO 527-2
Fracture, 23°C	30.9 - 111	MPa	ISO 527-2
23°C	51.7 - 70.3	MPa	ASTM D638
Tensile Strain			
Yield, 23°C	4.5 - 6.9	%	ISO 527-2
Fracture, 23°C	2.4 - 300	%	ASTM D638
Fracture, 23°C	3.0 - 54	%	ISO 527-2
Flexural Modulus			
23°C	1300 - 2280	MPa	ASTM D790
23°C	530 - 2060	MPa	ISO 178
Flexural Stress (23°C)	22.0 - 95.7	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0 - 18	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	80 - 100	kJ/m²	ISO 179

Notched Izod Impact			
23°C	35 - 200	J/m	ASTM D256
23°C	4.1 - 80	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	160 - 175	°C	ASTM D648
0.45 MPa, not annealed	115 - 180	°C	ISO 75-2/B
1.8 MPa, not annealed	59.8 - 66.3	°C	ASTM D648
1.8 MPa, not annealed	50.0 - 201	°C	ISO 75-2/A
Continuous Use Temperature	113 - 160	°C	ASTM D794
Melting Temperature	215 - 225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	2.0E-5 - 2.0E-4	cm/cm/°C	ISO 11359-2
Lateral	8.0E-5 - 1.5E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 - 2.5E+14	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+11 - 1.5E+12	ohms·cm	IEC 60093
Dielectric Strength (23°C)	30 - 45	kV/mm	IEC 60243-1
Comparative Tracking Index	599 - 600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	79.3 - 82.2	°C	
Drying Time	2.0 - 5.0	hr	
Suggested Max Moisture	0.10 - 0.20	%	
Rear Temperature	216 - 254	°C	
Middle Temperature	221 - 266	°C	
Front Temperature	227 - 277	°C	
Processing (Melt) Temp	248 - 288	°C	
Mold Temperature	50.9 - 87.8	°C	
Injection Pressure	8.62 - 10.8	MPa	
Back Pressure	0.258 - 0.689	MPa	
Injection instructions			
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Extrusion	Nominal Value	Unit	
Suggested Max Moisture	0.099 - 0.10	%	
Extrusion instructions			
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