

Generic ABS+Nylon

Acrylonitrile Butadiene Styrene + Nylon

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.04 - 1.09	g/cm³	ASTM D792
23°C	1.05 - 1.08	g/cm³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.28 - 0.73	%	ASTM D955
23°C	0.79 - 1.1	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.49 - 1.1	%	ASTM D570
23°C, 24 hr	0.50 - 0.71	%	ISO 62
Equilibrium, 23°C, 50% RH	1.1 - 1.4	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
23°C	101 - 102		ASTM D785
23°C	115 - 117		ISO 2039-2
Ball Indentation Hardness	70.0 - 86.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	900 - 2300	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	30.4 - 47.3	MPa	ASTM D638
Yield, 23°C	27.0 - 95.8	MPa	ISO 527-2
Fracture, 23°C	31.0 - 117	MPa	ASTM D638
23°C	34.8 - 45.0	MPa	ISO 527-2
Tensile Strain			
Yield, 23°C	3.0 - 3.9	%	ISO 527-2
Fracture, 23°C	2.5 - 200	%	ASTM D638
Fracture, 23°C	26 - 200	%	ISO 527-2
Flexural Modulus			
23°C	814 - 7170	MPa	ASTM D790
23°C	1150 - 2310	MPa	ISO 178
Flexural Strength			
23°C	39.3 - 150	MPa	ASTM D790

23°C	41.4 - 74.3	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.7 - 82	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	99 - 820	J/m	ASTM D256
23°C	64 - 71	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	77.5 - 220	°C	ASTM D648
0.45 MPa, not annealed	69.2 - 220	°C	ISO 75-2/B
1.8 MPa, not annealed	60.1 - 200	°C	ASTM D648
1.8 MPa, not annealed	59.1 - 80.4	°C	ISO 75-2/A
Vicat Softening Temperature			
--	90.0 - 199	°C	ASTM D1525
--	99.9 - 191	°C	ISO 306
CLTE - Flow	4.8E-5 - 1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	9.8E+13 - 1.0E+14	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+14 - 1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature	650 - 750	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 95.9	°C	
Drying Time	2.9 - 5.0	hr	
Rear Temperature	195 - 260	°C	
Middle Temperature	234 - 268	°C	
Front Temperature	245 - 265	°C	
Nozzle Temperature	235 - 241	°C	
Processing (Melt) Temp	230 - 265	°C	
Mold Temperature	59.3 - 80.0	°C	
Back Pressure	0.300 - 15.0	MPa	
Screw Speed	44 - 75	rpm	
Injection instructions			

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