

Zytel® MT409AHS BK010

NYLON RESIN
DuPont Performance Polymers

Message:
Toughened, Heat Stabilized, Polyamide 66

General Information				
UL YellowCard		E41938-234514		
Uses		Profiles		
Processing Method		Injection Molding		
		Profile Extrusion		
Part Marking Code (ISO 11469)		>PA66-I<		
Resin ID (ISO 1043)		PA66-I		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.7	--	%	
Flow	1.7	--	%	
Water Absorption (24 hr)	0.90	--	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2400	1080	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	42.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	27	%	ISO 527-2
Nominal Tensile Strain at Break	28	> 50	%	ISO 527-2
Flexural Modulus	2200	1080	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	12	--	kJ/m ²	
23°C	19	--	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	11	--	kJ/m ²	
-30°C	13	--	kJ/m ²	
23°C	17	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	187	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Melting Temperature ¹	262	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-4	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	4.7E+11	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	9.7E+11	ohms·cm	IEC 60093
Relative Permittivity				IEC 60250
100 Hz	3.90	9.80		
1 MHz	3.70	4.00		
Dissipation Factor				IEC 60250
100 Hz	6.0E-3	0.44		
1 MHz	0.013	0.51		
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	29	--	mm/min	ISO 3795
NOTE				

1. 10°C/min

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