

Sorona® MT3401 NC010

RENEWABLY SOURCED™ THERMOPLASTIC POLYMER*

DuPont Performance Polymers

Message:

Unreinforced, Renewably Sourced, Polytrimethylene Terephthalate with Excellent Impact Resistance

General Information			
UL YellowCard	E41938-101123486		
Additive	Mold Release		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PTT-I<		
Resin ID (ISO 1043)	PTT-I		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.7	%	
Flow	1.5	%	
Water Absorption			
24 hr	0.080	%	ASTM D570
23°C, 24 hr, 2.00 mm	0.34	%	ISO 62
Equilibrium, 23°C, 2.00 mm, 50% RH	0.11	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	15	%	ISO 527-2
Flexural Modulus	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	22	kJ/m²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	18	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	75.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	53.0	°C	ISO 75-2/A
Melting Temperature ¹	229	°C	ISO 11357-3

CLTE			ISO 11359-2
Flow	1.4E-4	cm/cm/°C	
Transverse	1.4E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	32	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.60		
1 MHz	3.40		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	0.021		
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
Fill Analysis	Nominal Value	Unit	
Melt Density	1.05	g/cm ³	
Specific Heat Capacity of Melt	2100	J/kg/°C	
Thermal Conductivity of Melt	0.20	W/m/K	
NOTE			
1.	10°C/min		

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