

Crastin® LW9020FR NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

20% Glass Reinforced, Flame Retardant, Polybutylene Terephthalate Blend with Low Warpage Characteristics

General Information			
UL YellowCard	E41938-101897301		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Mold Release		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)	>PBT+ASA-GF20FR(17)<		
Resin ID (ISO 1043)	PBT+ASA-GF20FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.40	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.78	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.23	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	7500	MPa	
1000 hr	6000	MPa	
Flexural Stress	155	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.5	kJ/m²	
23°C	7.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	35	kJ/m²	

23°C	40	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	6.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	33	kJ/m ²	
23°C	33	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	3.0E-5	cm/cm/°C	
Transverse	1.0E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength			
--	29	kV/mm	IEC 60243-1
1.00 mm ²	29	kV/mm	IEC 60243-1
2.00 mm ³	20	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.50		
Dissipation Factor			ASTM D150, IEC 60250
100 Hz	3.0E-3		
1 MHz	0.015		
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	V-0		IEC 60695-11-10, -20
Oxygen Index	27	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	
Melt Density	1.36	g/cm ³	
Specific Heat Capacity of Melt	1900	J/kg/°C	
Thermal Conductivity of Melt	0.25	W/m/K	
NOTE			
1.	10°C/min		
2.	Short Time		
3.	20 sec		

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