

Crastin® LW9030 NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced Polybutylene Terephthalate Blend with Low Warpage Characteristics

General Information			
UL YellowCard	E41938-257779		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Mold Release		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)		
	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PBT+ASA-GF30<		
Resin ID (ISO 1043)	PBT+ASA-GF30		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Across Flow : 80°C, 48 hr	0.20	%	
Flow	0.20	%	
Flow : 80°C, 48 hr	0.15	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.72	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.24	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ISO 527-2
Tensile Stress (Break)	130	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	9000	MPa	

1000 hr	7300	MPa	
Flexural Modulus	8500	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	65	kJ/m ²	
23°C	60	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	8.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	50	kJ/m ²	
23°C	50	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
Glass Transition Temperature ¹	120	°C	ISO 11357-2
Vicat Softening Temperature	150	°C	ISO 306/B50
Melting Temperature ²	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.5E-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	36	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.60		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	0.017		
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	42	mm/min	ISO 3795
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Oxygen Index	19	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	

Melt Density	1.28	g/cm ³
Specific Heat Capacity of Melt	1900	J/kg/°C
Thermal Conductivity of Melt	0.26	W/m/K
NOTE		
1.	10°C/min	
2.	10°C/min	

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