

Crastin® LW9030FR NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Flame Retardant, Polybutylene Terephthalate Blend with Low Warpage Characteristics

General Information			
UL YellowCard	E41938-257780		
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	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Tensile Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)	>PBT+ASA-GF30FR(17)<		
Resin ID (ISO 1043)	PBT+ASA-GF30FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.57	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.30	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.72	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.21	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10500	MPa	ISO 527-2
Tensile Stress (Break)	125	MPa	ISO 527-2
Tensile Strain (Break)	1.8	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	9500	MPa	
1000 hr	7400	MPa	
Flexural Stress	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	
23°C	8.0	kJ/m²	

Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	40	kJ/m ²	
23°C	40	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	7.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	35	kJ/m ²	
23°C	35	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/B50
Melting Temperature ¹	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.5E-5	cm/cm/°C	
Transverse	8.0E-5	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			IEC 60243-1
--	28	kV/mm	
1.00 mm ²	28	kV/mm	
2.00 mm ³	20	kV/mm	
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.60		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	0.015		
Comparative Tracking Index	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	5VA		
Oxygen Index	27	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	
Melt Density	1.42	g/cm ³	
Specific Heat Capacity of Melt	1850	J/kg/°C	
Thermal Conductivity of Melt	0.26	W/m/K	

NOTE

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|----|------------|
| 1. | 10°C/min |
| 2. | Short Time |
| 3. | 20 sec |

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