

Crastin® LW9020 NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

20% Glass Reinforced Polybutylene Terephthalate Blend with Low Warpage Characteristics

General Information			
UL YellowCard	E41938-257777		
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	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 Modulus vs. Temperature (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PBT+ASA-GF20<		
Resin ID (ISO 1043)	PBT+ASA-GF20		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.30	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.78	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.26	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	2.9	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	6500	MPa	
1000 hr	4800	MPa	
Flexural Modulus	6300	MPa	ISO 178

Flexural Stress	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.5	kJ/m ²	
23°C	9.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	43	kJ/m ²	
23°C	60	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	7.0	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	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	160	°C	ISO 75-2/A
Glass Transition Temperature ¹	110	°C	ISO 11357-2
Vicat Softening Temperature	145	°C	ISO 306/B50
Melting Temperature ²	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			IEC 60243-1
--	35	kV/mm	
1.00 mm ³	35	kV/mm	
2.00 mm ⁴	20	kV/mm	
Relative Permittivity			IEC 60250
100 Hz	3.60		
1 MHz	3.40		
Dissipation Factor			ASTM D150, IEC 60250
100 Hz	3.0E-3		
1 MHz	0.018		
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Oxygen Index	19	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	Test Method

Melt Density	1.19	g/cm ³
Specific Heat Capacity of Melt	1850	J/kg/°C
Thermal Conductivity of Melt	0.25	W/m/K
Odor	3.5	VDA 270

NOTE

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|----|------------|
| 1. | 10°C/min |
| 2. | 10°C/min |
| 3. | Short Time |
| 4. | 20 sec |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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