

Crastin® T841FR NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

10% Glass Reinforced, Flame Retardant, Toughened Polybutylene Terephthalate

General Information			
UL YellowCard	E41938-257843		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Mold Release		
Uses	Profiles		
	Sheet		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
Part Marking Code (ISO 11469)	>PBTC-GF10FR(17)<		
Resin ID (ISO 1043)	PBTC-GF10FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	0.70	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.35	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3900	MPa	ISO 527-2
Tensile Stress (Break)	70.0	MPa	ISO 527-2
Tensile Strain (Break)	4.7	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	3000	MPa	
1000 hr	2000	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m²	
23°C	8.5	kJ/m²	

Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	40	kJ/m ²	
23°C	46	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	170	°C	ISO 75-2/A
8.0 MPa, Unannealed	66.0	°C	ISO 75-2/C
Vicat Softening Temperature	180	°C	ISO 306/B50
Melting Temperature ¹	205	°C	ISO 11357-3
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	27	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.00		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	0.010		
1 MHz	0.018		
Comparative Tracking Index	250	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		
Oxygen Index	30	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density	1.31	g/cm ³	
Melt Viscosity (250°C, 1000 sec ⁻¹)	240	Pa·s	ISO 11443
Specific Heat Capacity of Melt	1970	J/kg/°C	
Thermal Conductivity of Melt	0.23	W/m/K	
NOTE			
1.	10°C/min		

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