Crastin® S610SF NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

Unreinforced Low Viscosity Polybutylene Terephthalate Developed for Super Fast Production

General Information			
Additive	Mold Release		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Shear Stress vs. Shear Rate (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2) Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PBT<		
Resin ID (ISO 1043)	PBT		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.31	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.6	%	
Flow	1.7	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.40	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.20	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield)	56.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Nominal Tensile Strain at Break	40	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m²	
23°C	4.0	kJ/m²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	54.0	°C	ISO 75-2/A
Melting Temperature [1]	223	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.3E-4	cm/cm/°C	

Transverse	1.3E-4	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	26	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.20		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	0.020		
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	HB		
1.50 mm	HB		
Oxygen Index	22	%	ISO 4589-2
Fill Analysis	**Nominal Value**	**Unit**	
Melt Density	1.11	g/cm³	
Specific Heat Capacity of Melt	2110	J/kg/°C	
Thermal Conductivity of Melt	0.21	W/m/K	
NOTE			
1.	10°C/min		

Recommended distributors for this material

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