

Rynite® 530 NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced Polyethylene Terephthalate

General Information			
UL YellowCard	E41938-257700		
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 Modulus vs. Temperature (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PET-GF30<		
Resin ID (ISO 1043)	PET-GF30		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	5.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.20	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.70	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	100		
R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	158	MPa	ISO 527-2

Tensile Strain (Break)	2.5	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	10800	MPa	
1000 hr	8800	MPa	
Flexural Modulus	8950	MPa	ISO 178
Flexural Stress	230	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	10	kJ/m ²	
-30°C	11	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	
23°C	60	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	245	°C	ISO 75-2/B
1.8 MPa, Unannealed	224	°C	ISO 75-2/A
Vicat Softening Temperature	230	°C	ISO 306/B50
Melting Temperature ¹	252	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.0E-5	cm/cm/°C	
Flow : -40 to 23°C	2.2E-5	cm/cm/°C	
Flow : 55 to 160°C	4.0E-6	cm/cm/°C	
Transverse	8.1E-5	cm/cm/°C	
Transverse : -40 to 23°C	6.7E-5	cm/cm/°C	
Transverse : 55 to 160°C	1.1E-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	38	kV/mm	IEC 60243-1
Dielectric Constant			
1 kHz	3.60		ASTM D150
1 MHz	3.50		ASTM D150
100 Hz	4.20		IEC 60250
1 MHz	3.90		IEC 60250
Dissipation Factor			
1 kHz	5.0E-7		ASTM D150
1 MHz	1.2E-6		ASTM D150
100 Hz	0.013		IEC 60250
1 MHz	7.0E-3		IEC 60250
Comparative Tracking Index (CTI)	PLC 2		UL 746

Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	38	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
Oxygen Index	20	%	ISO 4589-2
NOTE			
1.	10°C/min		

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