

Rynite® 935 NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced Polyethylene Terephthalate

General Information			
UL YellowCard	E41938-257712		
Filler / Reinforcement	Glass\Mica,35% 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 Stress vs. Shear Rate (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PET-(MD+GF)35<		
Resin ID (ISO 1043)	PET-(MD+GF)35		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	5.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.30	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.83	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.13	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	75		
R-Scale	115		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10200	MPa	ISO 527-2
Tensile Stress (Break)	85.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2

Tensile Creep Modulus			ISO 899-1
1 hr	9350	MPa	
1000 hr	7690	MPa	
Flexural Modulus	9100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	20	kJ/m ²	
23°C	25	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	235	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B50
Melting Temperature ¹	252	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.6E-5	cm/cm/°C	
Flow : -40 to 23°C	2.6E-5	cm/cm/°C	
Transverse	5.2E-5	cm/cm/°C	
Transverse : -40 to 23°C	5.3E-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	39	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.50		
1 MHz	4.10		
Dissipation Factor			IEC 60250
100 Hz	0.030		
1 MHz	0.014		
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
Oxygen Index	21	%	ISO 4589-2
NOTE			
1.	10°C/min		

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