

Rynite® 940 BK505

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

40% Glass/Mineral Reinforced Polyethylene Terephthalate

General Information			
UL YellowCard	E41938-257714		
Filler / Reinforcement	Glass\Mica,40% Filler by Weight		
Additive	Mold Release		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PET-(GF+MD)40<		
Resin ID (ISO 1043)	PET-(GF+MD)40		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	75		
R-Scale	115		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12500	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	1.8	%	ISO 527-2
Flexural Modulus	13000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	6.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	35	kJ/m ²	
23°C	35	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	241	°C	ISO 75-2/B
1.8 MPa, Unannealed	220	°C	ISO 75-2/A

Melting Temperature ¹	250	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.5E-5	cm/cm/°C	
Flow : -40 to 23°C	2.2E-5	cm/cm/°C	
Flow : 55 to 160°C	6.0E-6	cm/cm/°C	
Transverse	6.0E-5	cm/cm/°C	
Transverse : -40 to 23°C	5.4E-5	cm/cm/°C	
Transverse : 55 to 160°C	8.4E-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
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.70		
Dissipation Factor			IEC 60250
100 Hz	7.0E-3		
1 MHz	0.015		
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (0.750 mm)	HB		IEC 60695-11-10, -20
NOTE			
1.	10°C/min		

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