

Rynite® 540SUV BK544

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

40% Glass Reinforced, UV Stabilized, Polyethylene Terephthalate Developed for Extrusion and Injection Molding

General Information			
UL YellowCard	E41938-101564881		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	UV Stabilizer		
Uses	Profiles		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
	Profile Extrusion		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)	>PET-GF40<		
Resin ID (ISO 1043)	PET-GF40		
Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.20	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.60	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13500	MPa	ISO 527-2
Tensile Stress (Break)	162	MPa	ISO 527-2
Tensile Strain (Break)	2.3	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.8	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	249	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.7E-5	cm/cm/°C	

Transverse	7.5E-5	cm/cm/°C
Flammability	Nominal Value	Test Method
Flammability Classification (1.50 mm)	HB	IEC 60695-11-10, -20
NOTE		
1.	10°C/min	

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