

Zytel® HTN 53C40HSL BK544

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

40% Carbon Fiber Reinforced High Performance Polyamide

General Information				
Filler / Reinforcement		Carbon fiber reinforced material, 40% filler by weight		
Additive		heat stabilizer		
		Lubricant		
		demoulding		
Features		Conductivity		
		Static conduction		
		Thermal Stability		
RoHS Compliance		Contact manufacturer		
Forms		Particle		
Processing Method		Injection molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA-CF40		
Resin ID (ISO 1043)		PA-CF40		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	28000	25000	MPa	ISO 527-2
Tensile Stress (Break)	240	200	MPa	ISO 527-2
Tensile Strain (Break)	1.7	1.9	%	ISO 527-2
Flexural Modulus	26000	--	MPa	ISO 178
Flexural Stress	350	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	227	--	°C	ISO 75-2/A
Melting Temperature ¹	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+3	--	ohms·cm	ASTM D4496
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	ISO 3795
FMVSS Flammability	B	--		FMVSS 302
Melt Temperature, Optimum	290		°C	
Drying Recommended	yes			
Injection	Dry	Unit		
Drying Temperature	100		°C	
Drying Time - Desiccant Dryer	6.0 - 8.0		hr	
Suggested Max Moisture	0.10		%	
Processing (Melt) Temp	280 - 300		°C	
Mold Temperature	90 - 110		°C	
NOTE				
1.	10°C/min			
2.	FMVSS 302			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

