

# TECANYL® TECANYL®

Polyphenylene Ether  
Ensinger Inc.

## Message:

TECANYL®, due to its inherent chemical composition, exhibits unusually low moisture absorption. Therefore, good electrical insulating properties are realized over a wide range of humidity and temperature conditions. Chemical attack from water, most salt solutions, acids and bases is also minimal with TECANYL®. The addition of glass fiber reinforcement enhances both the mechanical and thermal properties of the basic TECANYL® material. Made from Noryl® EN265 resin.

Made from Noryl EN265 resin® exhibits a broad range of outstanding properties for applications in computers and business equipment, automotive, electrical insulation, telecommunications, appliances, electronics, and many other industries.

General Information			
Features	Electrically Insulating		
	Good Dimensional Stability		
	High Impact Resistance		
	Hydrolytically Stable		
	Low Moisture Absorption		
Uses	Appliances		
	Automotive Applications		
	Business Equipment		
	Computer Components		
	Electrical/Electronic Applications		
	Insulation		
	Telecommunications		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	ASTM D792
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2410	MPa	ASTM D638
Tensile Strength (Break, 23°C)	63.4	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	25	%	ASTM D638
Flexural Modulus (23°C)	2550	MPa	ASTM D790
Flexural Strength (23°C)	92.4	MPa	ASTM D790
Coefficient of Friction			
vs. Itself - Dynamic <sup>1</sup>	0.39		
vs. Itself - Static	0.32		
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	137	°C	
1.8 MPa, Unannealed	123	°C	
Vicat Softening Temperature	154	°C	
CLTE - Flow (-18 to 60°C)	5.9E-5	cm/cm/°C	ASTM D696
Maximum Service Temperature			
Intermittent	110	°C	
Long Term	104	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant <sup>2</sup> (23°C, 60 Hz)	2.70		ASTM D150
Dissipation Factor (23°C, 60 Hz)	7.0E-4		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-1		UL 94
NOTE			
1.	40 psi, 50 fpm		
2.	50% RH		

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#### Recommended distributors for this material

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