

# Electrafil® TPU 95A CF15

Thermoplastic Polyurethane Elastomer

Techmer Engineered Solutions

## Message:

Electrafil® TPU 95A CF15 is a Thermoplastic Polyurethane Elastomer product filled with 40% glass\carbon fiber. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass\Carbon Fiber,40% Filler by Weight		
Appearance	Black		
	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (A-Scale)	82		ASTM D785
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	79.3	MPa	
Break	39.3	MPa	
Tensile Elongation			ASTM D638
Yield	15	%	
Break	35	%	
Flexural Modulus	414	MPa	ASTM D790
Flexural Strength	95.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	171	°C	ASTM D648
Vicat Softening Temperature	138	°C	ASTM D1525
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms · cm	ASTM D257

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