

Electrafil® TPU 95A CF15

 Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber\Carbon Fiber, 40% Filler by Weight
Appearance	• Black • Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.27		ASTM D792
Molding Shrinkage - Flow	3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	11500	psi	ASTM D638
Tensile Strength (Break)	5700	psi	ASTM D638
Tensile Elongation (Yield)	15	%	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	60000	psi	ASTM D790
Flexural Strength	13800	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	3.0	ft·lb/in	ASTM D256
Hardness			
Rockwell Hardness (A-Scale)	82		ASTM D785
Durometer Hardness (Shore D)	70		ASTM D2240
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	340	°F	ASTM D648
Vicat Softening Temperature	280	°F	ASTM D1525
CLTE - Flow	1.2E-5	in/in/°F	ASTM D696
Electrical			
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

Notes
¹ Typical properties: these are not to be construed as specifications.
