

# INELEC TPUCF1050D

Thermoplastic Polyurethane Elastomer

Infinity LTL Engineered Compounds

## Message:

INELEC TPUCF1050D is a Thermoplastic Polyurethane Elastomer product filled with 10% carbon fiber. It is available in North America.

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 to 0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	48.3	MPa	ASTM D638
Tensile Elongation (Yield)	> 25	%	ASTM D638
Flexural Modulus	1170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	480	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	82.2	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	
Drying Time	4.0	hr	
Rear Temperature	188 to 221	°C	
Middle Temperature	188 to 221	°C	
Front Temperature	188 to 221	°C	
Processing (Melt) Temp	210	°C	
Mold Temperature	15.6 to 65.6	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	

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