

TES J-4/35

Polyamide 612
Techmer Engineered Solutions

Message:

TES J-4/35 is a Polyamide 612 (Nylon 612) product filled with 35% glass fiber. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of TES J-4/35 include engineering/industrial parts, automotive, electrical/electronic applications, furniture and handles.

Characteristics include:

- RoHS Compliant
- Chemical Resistant
- Good Stiffness
- Heat Resistant
- High Strength

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Good Chemical Resistance		
	Good Impact Resistance		
	Good Stiffness		
	High Heat Resistance		
	High Strength		
	Low Moisture Absorption		
Uses	Automotive Under the Hood		
	Bearings		
	Bushings		
	Cams		
	Electrical Parts		
	Fuel Lines		
	Furniture		
	Gears		
	Handles		
	Housings		
	Knobs		
	Pulleys		
	Sporting Goods		
	Valves/Valve Parts		
	Wheels		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	40		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9650	MPa	ASTM D638
Tensile Strength (Yield)	172	MPa	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Flexural Modulus	9310	MPa	ASTM D790
Flexural Strength (Yield)	248	MPa	ASTM D790
Compressive Strength	159	MPa	ASTM D695
Shear Strength	65.5	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	199	°C	
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	3.70		
1 MHz	3.40		
Dissipation Factor			ASTM D150
1 kHz	0.024		
1 MHz	0.016		
Injection	Nominal Value	Unit	
Drying Temperature	73.9 to 104	°C	
Drying Time	2.0 to 16	hr	
Rear Temperature	271 to 282	°C	
Middle Temperature	277 to 288	°C	
Front Temperature	266 to 277	°C	
Nozzle Temperature	260 to 271	°C	
Processing (Melt) Temp	271 to 282	°C	
Mold Temperature	54.4 to 82.2	°C	

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