

# TES J-1200/20/VO/Natl

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

## Message:

TES J-1200/20/VO/Natl is an Acrylonitrile Butadiene Styrene (ABS) product filled with 20% glass fiber. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Flame Retardant
- Good Dimensional Stability
- Heat Resistant

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
	Good Dimensional Stability		
	Good Impact Resistance		
	High Heat Resistance		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.080 to 0.18	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	59		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5170	MPa	ASTM D638
Tensile Strength (Yield)	83.4	MPa	ASTM D638
Tensile Elongation (Yield)	2.7	%	ASTM D638
Flexural Modulus	6480	MPa	ASTM D790
Flexural Strength (Yield)	112	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	101	°C	
1.8 MPa, Unannealed	100	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	71.1 to 82.2	°C
Drying Time	2.0 to 16	hr
Rear Temperature	210 to 227	°C
Middle Temperature	216 to 232	°C
Front Temperature	204 to 216	°C
Nozzle Temperature	193 to 216	°C
Processing (Melt) Temp	227 to 254	°C
Mold Temperature	65.6 to 82.2	°C

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#### Recommended distributors for this material

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