

TES J-90/20

High Density Polyethylene
Techmer Engineered Solutions

Message:

TES J-90/20 is a High Density Polyethylene 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:

- RoHS Compliant
- Chemical Resistant
- Good Processability
- High ESCR (Stress Crack Resistant)

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Chemical Resistance		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4140	MPa	ASTM D638
Tensile Strength (Yield)	44.8	MPa	ASTM D638
Tensile Elongation (Yield)	2.5	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength (Yield)	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	121	°C	
1.8 MPa, Unannealed	116	°C	
Injection	Nominal Value	Unit	
Rear Temperature	199 to 221	°C	
Middle Temperature	216 to 238	°C	

Front Temperature	210 to 232	°C
Nozzle Temperature	199 to 254	°C
Processing (Melt) Temp	193 to 232	°C
Mold Temperature	10.0 to 43.3	°C

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Recommended distributors for this material

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