TES J-1200/20

Techmer Polymer Modifiers - *Acrylonitrile Butadiene Styrene*

General Information

Product Description			
Molding Parameters: For 2-zone machines, the rear temperature is 450-520°F, and the front temperature is 420-470°F.			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Good Dimensional Stability		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• STELLANTIS MS-DB-435 CPN2439 Color: BK2089 Black	• STELLANTIS MS-DB-435 CPN3350	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.23		ASTM D792
Molding Shrinkage - Flow			ASTM D955
0.125 in	3.0E-3	in/in	
0.250 in	3.0E-3	in/in	
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	900000	psi	ASTM D638
Tensile Strength (Break, 73°F)	12000	psi	ASTM D638
Tensile Elongation (Break, 73°F)	2.0	%	ASTM D638
Flexural Modulus (73°F)	850000	psi	ASTM D790
Flexural Strength (Break, 73°F)	16000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	1.5	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	75		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	225	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	210	°F	ASTM D648
RTI Elec			UL 746B
0.06 in	140	°F	
0.12 in	140	°F	
0.24 in	140	°F	
RTI Imp			UL 746B
0.06 in	140	°F	
0.12 in	140	°F	
0.24 in	140	°F	
RTI Str			UL 746B
0.06 in	140	°F	
0.12 in	140	°F	
0.24 in	140	°F	
Flammability	**Nominal Value**	**Unit**	**Test Method**

Flame Rating		UL 94
0.06 in	HB	
0.12 in	HB	
0.24 in	HB	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160	°F
Drying Time	1.0	hr
Rear Temperature	420 to 450	°F
Middle Temperature	430 to 460	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	390 to 430	°F
Processing (Melt) Temp	450 to 500	°F
Mold Temperature	160 to 190	°F

Notes

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