

TECHNO ABS F5451G20

Acrylonitrile Butadiene Styrene

Techno Polymer Co, Ltd.

Message:

TECHNO ABS F5451G20 is an Acrylonitrile Butadiene Styrene (ABS) product filled with 20% glass fiber. It can be processed by injection molding and is available in Asia Pacific or North America.

Characteristics include:

Flame Rated

Flame Retardant

General Information			
UL YellowCard	E54297-244213		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
UL File Number	E54297		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	18	g/10 min	ISO 1133
Molding Shrinkage	0.20 to 0.40	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	113		ASTM D785
R-Scale	111		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	88.3	MPa	ASTM D638
Yield	77.0	MPa	ISO 527-2
Flexural Modulus			
--	6280	MPa	ASTM D790
--	5210	MPa	ISO 178
Flexural Strength	118	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179
Notched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	102	°C	ASTM D648
0.45 MPa, Unannealed	95.0	°C	ISO 75-2/B
Flammability	Nominal Value		Test Method

Flame Rating		UL 94
2.10 mm, ALL	V-0	
2.50 mm, ALL	5VA	
Injection	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	2.0 to 5.0	hr
Rear Temperature	180 to 230	°C
Middle Temperature	180 to 230	°C
Front Temperature	180 to 230	°C
Mold Temperature	50.0 to 100	°C

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