

TECHNO ABS F5450 W

Acrylonitrile Butadiene Styrene

Techno Polymer Co, Ltd.

Message:

TECHNO ABS F5450 W is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in Asia Pacific or North America. Typical application: Housings.

Characteristics include:

- Flame Rated
- Flame Retardant
- Good UV Resistance
- Heat Resistant

General Information			
Features	Flame Retardant		
	Good Thermal Stability		
	Good UV Resistance		
Uses	Housings		
UL File Number	E54297		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	69	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	108		ASTM D785
R-Scale	104		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	43.0	MPa	ISO 527-2
--	47.1	MPa	ASTM D638
Flexural Modulus			
--	2840	MPa	ASTM D790
--	2170	MPa	ISO 178
Flexural Strength			
--	78.5	MPa	ASTM D790
--	66.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.0	kJ/m ²	ISO 179

Notched Izod Impact	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	87.0	°C	ASTM D648
0.45 MPa, Unannealed	72.0	°C	ISO 75-2/B
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.40 mm, ALL	V-1		
2.10 mm, ALL	V-0		
2.50 mm, ALL	5V		
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 85.0	°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	40.0 to 80.0	°C	

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