

TECHNO ABS F5452

Acrylonitrile Butadiene Styrene

Techno Polymer Co, Ltd.

Message:

TECHNO ABS F5452 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in Asia Pacific or North America.

Characteristics include:

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

General Information			
UL YellowCard	E54297-244200		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Thermal Stability		
	Good UV Resistance		
UL File Number	E54297		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density			
--	1.19	g/cm ³	ISO 1183
--	1.21	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	37	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	102		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	47.1	MPa	ASTM D638
Yield	42.0	MPa	ISO 527-2
Flexural Modulus			
--	2650	MPa	ASTM D790
--	2110	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	10	kJ/m ²	ISO 179
Notched Izod Impact	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	90.0	°C	ASTM D648
0.45 MPa, Unannealed	72.0	°C	ISO 75-2/B
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.20 mm, ALL	V-2		
1.50 mm, ALL	V-0		
2.00 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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