

TECHNO ABS F5452

Acrylonitrile Butadiene Styrene

Techno Polymer Co, Ltd.

Technical Data

Product Description

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

Characteristics include:

- Flame Rated
- Flame Retardant
- Heat Resistant
- UV Resistant

General

Additive	• Flame Retardant		
Features	• Flame Retardant	• Good Thermal Stability	• UV Resistant
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

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

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness		
R-Scale	108	ASTM D785
R-Scale	102	ISO 2039-2

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

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Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.2 mm, ALL	V-2	
1.5 mm, ALL	V-0	
2.0 mm, ALL	5V	

Injection	Nominal Value Unit
Drying Temperature	75 to 85 °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 to 80 °C