

Toyolac® TP88

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® TP88 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Antistatic
- Wear Resistant

General Information			
Additive	Antistatic		
	Flame Retardant		
Features	Antistatic		
	Durable		
	Flame Retardant		
Part Marking Code	>ABS-FR(10+17)<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.18	g/cm ³	ASTM D792
23°C	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ISO 1133
Molding Shrinkage	0.50 to 0.80	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	96		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	35.0	MPa	ASTM D638
23°C	39.0	MPa	ISO 527-2
Tensile Elongation			
Break	10	%	ASTM D638
Break, 23°C	17	%	ISO 527-2
Flexural Modulus			
--	1670	MPa	ASTM D790
23°C	1610	MPa	ISO 178
Flexural Strength			
--	55.0	MPa	ASTM D790
23°C	55.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	25	kJ/m ²	ISO 179
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	98	J/m	
23°C, 12.7 mm	180	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	85.0	°C	ASTM D648
Vicat Softening Temperature	95.0	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+12	ohms	ASTM D257
Electrostatic Voltage ¹ (23°C)	1000	V	Internal Method
Half-life of Electrostatic Voltage Decay ² (23°C)	0.8	sec	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
NOTE			
1.	50%, 24 hr		
2.	50%, 24 hr		

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