

Toyolac® TP10

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® TP10 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

- Flame Rated
- Antistatic
- Wear Resistant

General Information			
Additive	Antistatic		
Features	Antistatic		
	Durable		
Part Marking Code	>ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
23°C	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	26	g/10 min	ISO 1133
Molding Shrinkage	0.50 to 0.70	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	109		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	46.0	MPa	ASTM D638
23°C	53.0	MPa	ISO 527-2
Tensile Elongation			
Break	10	%	ASTM D638
Break, 23°C	13	%	ISO 527-2
Flexural Modulus			
--	2160	MPa	ASTM D790
23°C	2200	MPa	ISO 178
Flexural Strength			
--	73.0	MPa	ASTM D790
23°C	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	69	J/m	

23°C, 12.7 mm	190	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	86.0	°C	ASTM D648
Vicat Softening Temperature	95.0	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	ASTM D257
Electrostatic Voltage ¹ (23°C)	660	V	Internal Method
Half-life of Electrostatic Voltage Decay ² (23°C)	0.4	sec	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			
1.	50%, 24 hr		
2.	50%, 24 hr		

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