

Toyolac® TP90-X02

Methyl Methacrylate / ABS

Toray Resin Company

Message:

Toyolac® TP90-X02 is a Methyl Methacrylate / ABS (MABS) 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		
Appearance	Clear/Transparent		
Part Marking Code	>MABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.11	g/cm ³	ASTM D792
23°C	1.11	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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	40.0	MPa	ASTM D638
23°C	48.0	MPa	ISO 527-2
Tensile Elongation			
Break	10	%	ASTM D638
Break, 23°C	10	%	ISO 527-2
Flexural Modulus			
--	1840	MPa	ASTM D790
23°C	1840	MPa	ISO 178
Flexural Strength			
--	63.0	MPa	ASTM D790
23°C	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	120	J/m	
23°C, 12.7 mm	110	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	81.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	ASTM D257
Electrostatic Voltage ¹ (23°C)	800	V	Internal Method
Half-life of Electrostatic Voltage Decay ² (23°C)	0.5	sec	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (Total, 3000 µm)	80.0	%	ISO 13468
Haze (3000 µm)	6.0	%	ISO 14782
NOTE			
1.	50%, 24 hr		
2.	50%, 24 hr		

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