

Toyolac™ TP90 X02 U

Toray Industries, Inc. - Methyl Methacrylate / ABS

General Information

Product Description

Transparent

General

Additive	• Antistatic		
Features	• Antistatic	• Pleasing Surface Appearance	
Uses	• Furniture • Office Automation Equipment • Packaging	• Printer • Structural Parts • Television Housings	• Transparent or Translucent Parts • White Goods & Small Appliances • Writing Instruments
Appearance	• Clear/Transparent		
Processing Method	• Film Extrusion	• Injection Molding	• Sheet Extrusion
ISO Designation	• >MABS<		

Properties¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	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 ²	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	6960	psi	ISO 527-2
Tensile Strain (Break, 73°F)	10	%	ISO 527-2
Flexural Modulus (73°F)	267000	psi	ISO 178
Flexural Stress (73°F)	9430	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in ²	ISO 179
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	ASTM D257
Electrostatic Voltage ³	800	V	Internal Method
Half-life of Electrostatic Voltage Decay ³	0.5	sec	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Light Transmittance ⁴	80.0	%	ISO 13468
Haze ⁴	6.00	%	ISO 14782

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C/50%RH

³ 23°C,50%,24hr

⁴ 23°C/50%RH, 3mmt