

Toyolac™ 912 X01 U MABS

TECHNICAL DATA

Product Description

High scratch resistant

Uses

- Camera Applications
- Office Automation Equipment
- Toys
- White Goods & Small Appliances

Appearance

- Clear/Transparent

Processing Method

- Film Extrusion
- Injection Molding
- Sheet Extrusion

ISO Designation

- >MABS<

Type

- ABS/Transparent

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	30	g/10 min	ISO 1133
Molding Shrinkage ¹	0.40 to 0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	56	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	12	%	ISO 527-2
Flexural Modulus (23°C)	2630	MPa	ISO 178
Flexural Stress (23°C)	83	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	78	°C	ISO 75-2/A
Vicat Softening Temperature	85 to 90	°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.0 mm, Black color	HB		
1.3 mm, All color	HB		
Optical	Nominal Value	Unit	Test Method
Light Transmittance ² (Total)	78.0	%	ISO 13468
Haze ²	16.0	%	ISO 14782

Notes

¹ 23°C/50%RH

² 23°C/50%RH, 3mm thickness

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