

Toyolac™ 920 555 U MABS

TECHNICAL DATA

Product Description

High rigidity

Uses	• Camera Applications • Cell Phones	• Cosmetics • Toys	• White Goods & Small Appliances • Writing Instruments
Appearance	• Clear/Transparent		
Processing Method	• Extrusion • Film Extrusion	• Injection Molding • Sheet Extrusion	
ISO Designation	• >MABS<		
Type	• ABS/Transparent		

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.09	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	21	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)	54	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	17	%	ISO 527-2
Flexural Modulus (23°C)	2260	MPa	ISO 178
Flexural Stress (23°C)	77	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	115		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	77	°C	ISO 75-2/A
Vicat Softening Temperature	90	°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.2 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Light Transmittance ² (Total)	88.0	%	ISO 13468
Haze ²	2.00	%	ISO 14782

Notes

¹ 23°C/50%RH

² 23°C/50%RH, 3mm thickness

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