

Toyolac™ 920 555 U

Toray Industries, Inc. - *Methyl Methacrylate / ABS*

General Information

Product Description

High rigidity

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• High Flow	• High Strength	• Pleasing Surface Appearance
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<		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.09	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	21	g/10 min	ISO 1133
Molding Shrinkage ²	0.40 to 0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	7830	psi	ISO 527-2
Tensile Strain (Break, 73°F)	17	%	ISO 527-2
Flexural Modulus (73°F)	328000	psi	ISO 178
Flexural Stress (73°F)	11200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.3	ft·lb/in ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	115		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	171	°F	ISO 75-2/A
Vicat Softening Temperature	194	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.05 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Light Transmittance ³ (Total)	88.0	%	ISO 13468
Haze ³	2.00	%	ISO 14782

Notes

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

² 23°C/50%RH

³ 23°C/50%RH, 3mm thickness

