Toyolac™ 920 555 U

Toray Industries, Inc. - Methyl Methacrylate / ABS

General Information			
Product Description			
High rigidity			
General			
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/cm³	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/in²	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			ISO 75-2/A
264 psi, Unannealed	171	°F	
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