Toyolac™ 930 355 U

Toray Industries, Inc. - Methyl Methacrylate / ABS

General Information			
Product Description			
High impact			
General			
Features	• High Impact Resistance	• Pleasing Surface Appearance	
Uses	• Bathroom Accessories • Camera Applications • Cosmetics	• Kitchenware • 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)	1.08	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	23	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)	6530	psi	ISO 527-2
Tensile Strain (Break, 73°F)	16	%	ISO 527-2
Flexural Modulus (73°F)	265000	psi	ISO 178
Flexural Stress (73°F)	9280	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	6.2	ft·lb/in²	ISO 179
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 73°F)	102		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	165	°F	
Vicat Softening Temperature	185	°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)	85.0	%	ISO 13468
Haze [3]	3.00	%	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