

Toyolac® 920-555

Methyl Methacrylate / ABS

Toray Resin Company

Message:

Toyolac® 920-555 is a Methyl Methacrylate / ABS (MABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Rigid

General Information			
Features	High Rigidity		
Appearance	Clear/Transparent		
Part Marking Code	>MABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.09	g/cm ³	ASTM D792
23°C	1.09	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	25	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	115		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	48.0	MPa	ASTM D638
23°C	54.0	MPa	ISO 527-2
Tensile Elongation			
Break	20	%	ASTM D638
Break, 23°C	17	%	ISO 527-2
Flexural Modulus			
--	2160	MPa	ASTM D790
23°C	2260	MPa	ISO 178
Flexural Strength			
--	74.0	MPa	ASTM D790
23°C	77.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	110	J/m	
23°C, 12.7 mm	110	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	83.0	°C	ASTM D648
1.8 MPa, Unannealed	77.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (Total, 3000 μm)	88.0	%	ISO 13468
Haze (3000 μm)	2.0	%	ISO 14782

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