

Toyolac® 700-SG5

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® 700-SG5 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
Features	Medium Impact Resistance		
Part Marking Code	>ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
23°C	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	26	g/10 min	ISO 1133
Molding Shrinkage	0.30 to 0.60	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	116		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	53.0	MPa	ASTM D638
23°C	56.0	MPa	ISO 527-2
Tensile Elongation			
Break	28	%	ASTM D638
Break, 23°C	10	%	ISO 527-2
Flexural Modulus			
--	2450	MPa	ASTM D790
23°C	2560	MPa	ISO 178
Flexural Strength			
--	78.0	MPa	ASTM D790
23°C	84.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Notched Izod Impact (23°C, 12.7 mm)	220	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	88.0	°C	ASTM D648
1.8 MPa, Unannealed	82.0	°C	ISO 75-2/A

Vicat Softening Temperature	95.0	°C
Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94
Optical	Nominal Value	Test Method
Gloss (60°)	98	Internal Method

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