

Toyolac® 100G-20

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® 100G-20 is an Acrylonitrile Butadiene Styrene (ABS) product filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E41797-233213	E41797-233217	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Part Marking Code	>ABS-GF20<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.18	g/cm³	ASTM D792
23°C	1.18	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	17	g/10 min	ISO 1133
Molding Shrinkage	0.10 to 0.30	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	120		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	98.0	MPa	ASTM D638
23°C	102	MPa	ISO 527-2
Tensile Elongation			
Break	3.0	%	ASTM D638
Break, 23°C	3.0	%	ISO 527-2
Flexural Modulus			
--	6200	MPa	ASTM D790
23°C	6540	MPa	ISO 178
Flexural Strength			
--	140	MPa	ASTM D790
23°C	155	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179
Notched Izod Impact (23°C, 12.7 mm)	74	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	102	°C	ASTM D648
1.8 MPa, Unannealed	104	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°C	

Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94

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