

Toyolac® VX10G20

Acrylonitrile Butadiene Styrene + PBT

Toray Resin Company

Message:

Toyolac® VX10G20 is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) product filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E41797-233340		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Part Marking Code	>PBT+ABS-GF20<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.30	g/cm ³	ASTM D792
23°C	1.30	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	36	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	105	MPa	ASTM D638
23°C	101	MPa	ISO 527-2
Tensile Elongation			
Break	4.0	%	ASTM D638
Break, 23°C	4.0	%	ISO 527-2
Flexural Modulus			
--	5490	MPa	ASTM D790
23°C	6050	MPa	ISO 178
Flexural Strength			
--	145	MPa	ASTM D790
23°C	158	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Notched Izod Impact (23°C, 12.7 mm)	99	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	121	°C	ASTM D648
1.8 MPa, Unannealed	112	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	

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