

Toyolac® VX10-X01

Acrylonitrile Butadiene Styrene + PBT

Toray Resin Company

Message:

Toyolac® VX10-X01 is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
Part Marking Code	>PBT+ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.14	g/cm ³	ASTM D792
23°C	1.14	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	21	g/10 min	ISO 1133
Molding Shrinkage	0.60 to 0.90	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	108		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	43.0	MPa	ASTM D638
23°C	45.0	MPa	ISO 527-2
Tensile Elongation			
Break	50	%	ASTM D638
Break, 23°C	10	%	ISO 527-2
Flexural Modulus			
--	1930	MPa	ASTM D790
23°C	1980	MPa	ISO 178
Flexural Strength			
--	66.0	MPa	ASTM D790
23°C	68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	45	kJ/m ²	ISO 179
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	100	J/m	
-30°C, 12.7 mm	69	J/m	
23°C, 3.20 mm	470	J/m	
23°C, 12.7 mm	200	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	92.0	°C	ASTM D648

1.8 MPa, Unannealed	82.0	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	

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