

Toyolac® AX05-X03

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® AX05-X03 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
Features	Detergent Resistant		
Part Marking Code	>ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.04	g/cm ³	ASTM D792
23°C	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	15	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)	108		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	43.0	MPa	ASTM D638
23°C	41.0	MPa	ISO 527-2
Tensile Elongation			
Break	25	%	ASTM D638
Break, 23°C	15	%	ISO 527-2
Flexural Modulus			
--	2000	MPa	ASTM D790
23°C	1860	MPa	ISO 178
Flexural Strength			
--	64.0	MPa	ASTM D790
23°C	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	34	kJ/m ²	ISO 179
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	480	J/m	
23°C, 12.7 mm	340	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	84.0	°C	ASTM D648
1.8 MPa, Unannealed	79.0	°C	ISO 75-2/A

Vicat Softening Temperature	90.0 to 95.0	°C
Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94

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