

Toyolac® 844V-X05

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® 844V-X05 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Flame Retardant

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
Part Marking Code	>ABS-FR(17)<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.16	g/cm ³	ASTM D792
23°C	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	34	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	105		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	41.0	MPa	ASTM D638
23°C	43.0	MPa	ISO 527-2
Tensile Elongation			
Break	5.0	%	ASTM D638
Break, 23°C	5.0	%	ISO 527-2
Flexural Modulus			
--	2230	MPa	ASTM D790
23°C	2100	MPa	ISO 178
Flexural Strength			
--	66.0	MPa	ASTM D790
23°C	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179
Notched Izod Impact (23°C, 12.7 mm)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	82.0	°C	ASTM D648

1.8 MPa, Unannealed	74.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0	°C	
Flammability	Nominal Value	Test Method	
Flame Rating (2.50 mm)	5VA	UL 94	

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