

Toyolac® 125-X82

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® 125-X82 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
Features	Platable		
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)	22	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)	111		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	43.0	MPa	ASTM D638
23°C	48.0	MPa	ISO 527-2
Tensile Elongation			
Break	20	%	ASTM D638
Break, 23°C	33	%	ISO 527-2
Flexural Modulus			
--	2350	MPa	ASTM D790
23°C	2330	MPa	ISO 178
Flexural Strength			
--	71.0	MPa	ASTM D790
23°C	72.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m ²	ISO 179
Notched Izod Impact (23°C, 12.7 mm)	250	J/m	ASTM D256
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	83.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0 to 95.0	°C	
CLTE - Flow	7.1E-5	cm/cm/°C	ASTM D696

Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94

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