

Toyolac® TP82-X05

Acrylonitrile Butadiene Styrene

Toray Resin Company

Message:

Toyolac® TP82-X05 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Antistatic
- Wear Resistant

General Information			
Additive	Antistatic		
	Flame Retardant		
Features	Antistatic		
	Durable		
	Flame Retardant		
Part Marking Code	>ABS-FR(17)<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.12	g/cm ³	ASTM D792
23°C	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	35	g/10 min	ISO 1133
Molding Shrinkage	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	47.0	MPa	ASTM D638
23°C	52.0	MPa	ISO 527-2
Tensile Elongation			
Break	10	%	ASTM D638
Break, 23°C	14	%	ISO 527-2
Flexural Modulus			
--	2280	MPa	ASTM D790
23°C	2410	MPa	ISO 178
Flexural Strength			
--	70.0	MPa	ASTM D790
23°C	77.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179

Notched Izod Impact (23°C, 12.7 mm)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	87.0	°C	ASTM D648
Vicat Softening Temperature	95.0 to 100	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.0E+12	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-2		UL 94

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