

Abstron TG3MM

Acrylonitrile Butadiene Styrene
Bhansali Engineering Polymers Limited

Message:

Abstron TG3MM is an acrylonitrile butadiene styrene (ABS) product. It can be processed by injection molding and is available in the Asia-Pacific region. Features include:
flame retardant/rated flame
Hard
Impact resistance

General Information			
Features	Rigidity, high		
	Medium liquidity		
	Medium impact resistance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	21	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.20mm, injection molding ¹	45.1	MPa	ASTM D638
Yield, 3.20mm, injection molding ²	49.0	MPa	ASTM D638
Flexural Modulus ³ (6.40 mm, Injection Molded)	2300	MPa	ASTM D790
Flexural Strength ⁴ (Yield, mm, injection molding)	68.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20mm, injection molding	270	J/m	ASTM D256
23°C, 6.40mm, injection molding	230	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (1.8 MPa, Annealed, 6.40 mm, Injection Molded)	90.0	°C	ASTM D648A
Flammability	Nominal Value		Test Method
Flame Rating (3.2 mm)	HB		UL 94
NOTE			

1.	Type 1, 5.0 mm/min
2.	Type 1, 50mm/min
3.	5.0 mm/min
4.	5.0 mm/min
5.	Annealed at 80°C for 2 hr

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