

Toyolac® ASG-20

Styrene Acrylonitrile
Toray Resin Company

Message:

Toyolac® ASG-20 is an acrylonitrile butadiene styrene (ABS) material, and its filler is 20% glass fiber reinforced material. This product is available in Europe or Asia Pacific.

Toyolac® The main features of the ASG-20 are:

flame retardant/rated flame

ROHS certification

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	25	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	126		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8800	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	130	MPa	ASTM D638
Fracture	112	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ²	3.0	%	ASTM D638
Fracture	> 2.0	%	ISO 527-2/5
Flexural Modulus ³	7500	MPa	ASTM D790
Flexural Strength			
-- ⁴	160	MPa	ASTM D790
-- ⁵	172	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 12.7 mm)	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	109	°C	ASTM D648
1.8 MPa, not annealed	106	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
NOTE			

1.	5.0 mm/min
2.	5.0 mm/min
3.	3.0 mm/min
4.	3.0 mm/min
5.	2.0 mm/min

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