

DENKA ABS GR-2010G

Acrylonitrile Butadiene Styrene

Denka Company Limited

Message:

DENKA ABS GR-2010G is an Acrylonitrile Butadiene Styrene (ABS) product filled with 10% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E49895-241440		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	General Purpose		
Uses	General Purpose		
UL File Number	E49895		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.10	g/cm ³	ASTM D792
23°C	1.11	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.20 to 0.40	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	119		ASTM D785
R-Scale	117		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	78.0	MPa	ASTM D638
--	3920	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	55.0	MPa	
Break	55.0	MPa	
Nominal Tensile Strain at Break	4.0	%	ISO 527-2/50
Flexural Modulus			
-- ²	4410	MPa	ASTM D790
-- ³	3850	MPa	ISO 178
Flexural Strength			
-- ⁴	127	MPa	ASTM D790
-- ⁵	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Notched Izod Impact	130	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed ⁶	103	°C	ASTM D648
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	111	°C	ASTM D1525 ⁷
--	108	°C	ISO 306/B
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			

1.	5.0 mm/min
2.	15 mm/min
3.	2.0 mm/min
4.	15 mm/min
5.	2.0 mm/min
6.	Edgewise
7.	Loading 2 (50 N)

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