

DENKA ABS K-5110G

Acrylonitrile Butadiene Styrene

Denka Company Limited

Message:

DENKA ABS K-5110G is an Acrylonitrile Butadiene Styrene (ABS) product filled with 10% glass fiber. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Heat Resistant

General Information			
UL YellowCard	E49895-241478		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	High Heat Resistance		
UL File Number	E49895		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.13	g/cm ³	ASTM D792
23°C	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	0.60	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	120		ASTM D785
R-Scale	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	58.0	MPa	ASTM D638
--	4000	MPa	ISO 527-2/1
Tensile Stress (Break)	58.0	MPa	ISO 527-2/50
Nominal Tensile Strain at Break	4.0	%	ISO 527-2/50
Flexural Modulus			
-- ²	3550	MPa	ASTM D790
-- ³	3800	MPa	ISO 178
Flexural Strength			
-- ⁴	93.0	MPa	ASTM D790
-- ⁵	97.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
1.8 MPa, Unannealed ⁶	127	°C	ASTM D648
1.8 MPa, Unannealed	129	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	134	°C	ASTM D1525 ⁷
--	135	°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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