

DENKA ABS K-5130G

Acrylonitrile Butadiene Styrene

Denka Company Limited

Message:

DENKA ABS K-5130G is an Acrylonitrile Butadiene Styrene (ABS) product filled with 30% 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,30% Filler by Weight		
Features	High Heat Resistance		
UL File Number	E49895		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.23	g/cm ³	ASTM D792
23°C	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	0.20	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.10 to 0.30	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	123		ASTM D785
R-Scale	116		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	84.0	MPa	ASTM D638
--	8000	MPa	ISO 527-2/1
Tensile Stress (Break)	116	MPa	ISO 527-2/50
Nominal Tensile Strain at Break	3.0	%	ISO 527-2/50
Flexural Modulus			
-- ²	5900	MPa	ASTM D790
-- ³	7850	MPa	ISO 178
Flexural Strength			
-- ⁴	118	MPa	ASTM D790
-- ⁵	185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	11	kJ/m ²	ISO 179
Notched Izod Impact	87	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
1.8 MPa, Unannealed ⁶	130	°C	ASTM D648
1.8 MPa, Unannealed	136	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	136	°C	ASTM D1525 ⁷
--	140	°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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