DENKA ABS K-5120G

Acrylonitrile Butadiene Styrene

Denka Company Limited

Message:

DENKA ABS K-5120G is an Acrylonitrile Butadiene Styrene (ABS) product filled with 20% 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,20% Filler by Weight		
Features	High Heat Resistance		
UL File Number	E49895		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.21	g/cm³	ASTM D792
23°C	1.22	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	0.40	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	122		ASTM D785
R-Scale	115		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	77.0	MPa	ASTM D638
--	6050	MPa	ISO 527-2/1
Tensile Stress (Break)	88.0	MPa	ISO 527-2/50
Nominal Tensile Strain at Break	4.0	%	ISO 527-2/50
Flexural Modulus			
-- [2]	4700	MPa	ASTM D790
-- [3]	5800	MPa	ISO 178
Flexural Strength			
-- [4]	108	MPa	ASTM D790
-- [5]	141	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	10	kJ/m²	ISO 179
Notched Izod Impact	98	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load			
1.8 MPa, Unannealed [6]	129	°C	ASTM D648
1.8 MPa, Unannealed	134	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	135	°C	ASTM D1525 [7]
--	138	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China