

# Kaneka MUH LG5013

Acrylonitrile Butadiene Styrene

Kaneka Corporation

Message:

Kaneka MUH LG5013 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America and is processed by injection molding. The main features of Kaneka MUH LG5013 are:

- low gloss
- Good processability
- Impact resistance
- Heat resistance

Typical application areas include:

- Electrical/electronic applications
- Automotive Industry

General Information			
Features	Gloss, low		
	Impact resistance, good		
	Good formability		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.50 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	42.0	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	2400	MPa	ASTM D790
Flexural Strength	69.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	60	J/m	ASTM D256
-30°C, 6.40 mm	50	J/m	ASTM D256
23°C, 3.20 mm	100	J/m	ASTM D256
23°C, 6.40 mm	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	104	°C	ASTM D648
1.8 MPa, not annealed	92.0	°C	ASTM D648
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	22		ASTM D523
Additional Information			

Coefficient of Linear Thermal Expansion, Kaneka Method, flow: 7-9 E-5 cm/cm/°C Mold Shrinkage, Kaneka Method, flow, 73°F: 5-8 mil/in Spiral Flow, Kaneka Method, 482°F: 29.9 in Reflective Rate, Kaneka Method, 60°, 73°F: 22 %

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