

LEONA™ BG230

Asahi Kasei Corporation - Polyamide 610

General Information

General			
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features AKEP website	• Bio-based	• Heat Stabilized	• Hydrolysis Resistant
Uses	• Automotive Applications • Electrical/Electronic Applications	• Structural Parts • Tanks	
Part Marking Code (ISO11469) (ISO 11469)	• >PA610-GF30<		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	--	0.90	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9500	8000	MPa	ISO 527-1
Tensile Stress (Break, 23°C)	170	130	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	6.0	%	ISO 527-2
Flexural Modulus (23°C)	9300	7800	MPa	ISO 178
Flexural Strength (23°C)	268	211	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	10	12	kJ/m ²	ISO 179
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	94	83		ISO 2039-2



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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	207	--	°C	
CLTE - Transverse	2.0E-5	--	cm/cm/°C	ASTM D696

Processing Information			
Injection	Dry Unit		
Drying Temperature - Vacuum Dryer	80 to 90	°C	
Drying Time - Vacuum Dryer	2.0 to 3.0	hr	
Processing (Melt) Temp	270 to 290	°C	
Mold Temperature	75 to 85	°C	

Notes

¹ Typical properties: these are not to be construed as specifications.

