

### General Information

#### General

Material Status	• Commercial: Active		
Filler / Reinforcement	• Glass Fiber, 30 % Filler by Weight		
Additives	• Heat Stabilizer		
Features	• Creep Resistant	• Heat Stabilized	• High Strength
	• Fatigue Resistant	• High Stiffness	• Medium Heat Resistance

### ISO Properties<sup>1</sup>

Physical	Dry	Conditioned <sup>2</sup>	Unit	Test Method
Specific Gravity	1.36	–	g/cm <sup>3</sup>	ISO 1183
Water Absorption				
Equilibrium, 23 °C, 50 % r. H.	–	1.7	%	ISO 62
Mechanical	Dry	Conditioned <sup>2</sup>	Unit	Test Method
Tensile Modulus				
23 °C	10300	7100	MPa	ISO 527-2
Tensile Stress				
Break, 23 °C	193	130	MPa	ISO 527-2
Tensile Elongation				
Break, 23 °C	3	5	%	ISO 527-2
Flexural Modulus				
23 °C	9400	6800	MPa	ISO 178
Flexural Strength				
23 °C	300	213	MPa	ISO 178
Impact	Dry	Conditioned <sup>2</sup>	Unit	Test Method
Charpy Impact Strength, notched	12	15	kJ/m <sup>2</sup>	ISO 179
Thermal	Dry	Conditioned <sup>2</sup>	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, unannealed	260	–	°C	ISO 75-2/B
1.8 MPa, unannealed	246	–	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion				ISO 11359-2
longitudinal	3	–	×10 <sup>-5</sup> /K	
transversal	7	–	×10 <sup>-5</sup> /K	

**Disclaimer:**

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage.

- These data may be changed because of improvement in properties.

- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.

- Do not use plastics in any of the following orally- or medically-related applications.

- Orally-related application: any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages.

- For drinking water application, please consult Asahi Kasei representatives.

- Medically-related applications: any part, device or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

## LEONA™ 14G30 BK

Asahi Kasei Corporation – Polyamide 6.6 – black

### Processing Parameters

<b>Drying</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	80 - 90	°C
Drying Time	2 - 3	h
<b>Injection Molding</b>	<b>Nominal Value</b>	<b>Unit</b>
Mold Temperature	75 - 85	°C
Resin Temperature	275 - 295	°C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Equilibrium, 23 °C, 50 % r. H.

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