

Leona™ 90G33

Asahi Kasei Corporation - Polyamide 66

Tuesday, April 10, 2018

General Information					
Commercial: Active					
 Africa & Middle East Asia Pacific	EuropeNorth America				
Glass Fiber, 33% Filler by W	eight				
High FlowHigh Stiffness	 High Strength Pleasing Surface Appearance				
Automotive ApplicationsAutomotive Interior Parts	Industrial ApplicationsStructural Parts				
	Commercial: Active Africa & Middle East Asia Pacific Glass Fiber, 33% Filler by W High Flow High Stiffness Automotive Applications	Commercial: Active Africa & Middle East Europe North America Glass Fiber, 33% Filler by Weight High Flow High Stiffness Pleasing Surface Appearance Automotive Applications Lindustrial Applications			

ASTM & ISO Properties ¹						
Physical	Dry	Conditioned	Unit	Test Method		
Density / Specific Gravity	1.39		g/cm³	ASTM D792 ISO 1183		
Molding Shrinkage				Internal Metho		
Across Flow	0.90		%			
Flow	0.40		%			
Water Absorption						
Saturation, 23°C		1.4	%			
Equilibrium, 23°C, 50% RH		1.4	%	ISO 62		
Mechanical	Dry	Conditioned	Unit	Test Method		
Tensile Modulus (23°C)	10200	9300	MPa	ISO 527-2		
Tensile Stress						
Break, 23°C	180	150	MPa	ISO 527-2		
	194	157	MPa	ASTM D638		
Tensile Elongation						
Break	3.0	4.0	%	ASTM D638		
Break, 23°C	2.5	3.0	%	ISO 527-2		
Flexural Modulus						
	9600	7600	MPa	ASTM D790		
23°C	10000	8100	MPa	ISO 178		
Flexural Strength						
	294	245	MPa	ASTM D790		
23°C	238	216	MPa	ISO 178		
mpact	Dry	Conditioned	Unit	Test Method		
Charpy Notched Impact Strength	6.0	12	kJ/m²	ISO 179		
Charpy Unnotched Impact Strength	55	54	kJ/m²	ISO 179		
Notched Izod Impact	98	120	J/m	ASTM D256		
Hardness	Dry	Conditioned	Unit	Test Method		
Rockwell Hardness				ASTM D785		
M-Scale	90			ISO 2039-2		
R-Scale	120					

Disclaimer:

- Data shown are typical values obtained by proper testing methods and shoud 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 Ksei Chemicals Corporation.
- Medically-related applications: any part,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.

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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	235		°C	ISO 75-2/B
1.8 MPa, Unannealed	220		°C	ASTM D648 ISO 75-2/A
CLTE - Flow	3.0E-5		cm/cm/°C	ASTM D696

Notes

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