



Leona™ SN103 *33J8

Asahi Kasei Corporation - Polyamide 66 + PA 6I

Monday, September 25, 2023

General Information

General	
Material Status	• Commercial: Active ¹
Availability	<ul style="list-style-type: none"> • Africa & Middle East • Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features AKEP website	<ul style="list-style-type: none"> • Flame Retardant • Good appearance • Halogen Free • High Strength in Wet • Tracking Resistant
Uses	<ul style="list-style-type: none"> • Automotive Applications • Automotive Interior Parts • Electrical/Electronic Applications • Industrial Applications
Agency Ratings	• EN 45545 R22/R23 HL3
Part Marking Code (ISO11469) (ISO 11469)	• >PA66+6I-GF30 FR(40)<

Other Documentation

Literature	<ul style="list-style-type: none"> • Moldflow Data • Molding Conditions • Presentation • SDS • Technical Handbook
------------	--

ASTM & ISO Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	1.0	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	--	1.7	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11600	11200	MPa	ISO 527-1
Tensile Stress (Break, 23°C)	163	137	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.2	2.2	%	ISO 527-2
Flexural Modulus (23°C)	11300	10700	MPa	ISO 178
Flexural Stress (23°C)	244	213	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	10	10	kJ/m ²	ISO 179

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 applications: 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 Corporation.

- 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™ SN103 *33J8

Asahi Kasei Corporation - Polyamide 66 + PA 6I

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	102	98		ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	258	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	241	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm, BK)	V-0	--		UL 94

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	280 to 290	°C
Mold Temperature	85 to 95	°C

Notes

¹ All data is provisional.

² Typical properties: these are not to be construed as specifications.

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 applications: 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 Corporation.

- 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.