

# Leona™ 1300S

### Asahi Kasei Corporation - Polyamide 66

Tuesday, April 10, 2018

ASTM D785 ISO 2039-2

General				
Material Status	<ul> <li>Commercial: Active</li> </ul>			
Availability	Africa & Middle East	• Europe		
Availability	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>North America</li> </ul>		
Features	<ul> <li>Good Flow</li> </ul>	<ul> <li>Good Stiffness</li> </ul>	<ul> <li>Good Toughness</li> </ul>	
Uses	<ul> <li>Automotive Applications</li> </ul>	<ul> <li>Consumer Applications</li> </ul>		
	<ul> <li>Connectors</li> </ul>	<ul> <li>Fittings</li> </ul>		
	ASTM & ISO	Properties <sup>1</sup>		
Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.14		g/cm³	ASTM D792 ISO 1183
Molding Shrinkage - Flow	1.3 to 2.0		%	Internal Method
Water Absorption				
Saturation, 23°C		2.5	%	
Equilibrium, 23°C, 50% RH		2.5	%	ISO 62
<b>N</b> echanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3000	1200	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	82.0	52.0	MPa	ISO 527-2
	79.0	57.0	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	4.0	24	%	ISO 527-2
Break	50	250	%	ASTM D638
Break, 23°C		> 100	%	ISO 527-2
Flexural Modulus				
	2800	1200	MPa	ASTM D790
23°C	2700	1100	MPa	ISO 178
Flexural Strength				
	118	54.0	MPa	ASTM D790
23°C	113	42.0	MPa	ISO 178
Taber Abrasion Resistance				ASTM D1044
1000 Cycles		7.00	mg	
mpact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	15	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	39	150	J/m	ASTM D256
lardness	Dry	Conditioned	Unit	Test Method

**General Information** 

#### Disclaimer:

Rockwell Hardness

M-Scale

R-Scale

- 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
Deflection Temperature Under Load				
0.45 MPa, Unannealed	230		°C	ASTM D648
0.45 MPa, Unannealed	190		°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0		°C	ASTM D648 ISO 75-2/A
CLTE - Flow	8.0E-5		cm/cm/°C	ASTM D696
Specific Heat	1670		J/kg/°C	
Thermal Conductivity	0.20		W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13		ohms	ASTM D257 IEC 60093
Volume Resistivity				
	1.0E+14		ohms·cm	ASTM D257
23°C	1.0E+14		ohms·cm	IEC 60093
Dielectric Strength	20		kV/mm	ASTM D149 IEC 60243-1
Comparative Tracking Index				IEC 60112
3.00 mm	600		V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm)	V-2			UL 94
Glow Wire Flammability Index				IEC 60695-2-12
3.0 mm	960		°C	
Oxygen Index	26		%	ASTM D2863

#### **Notes**

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