

Tuesday, July 16, 2024

# LEONA™ 1502S

Asahi **KASEI** 

### Asahi Kasei Corporation - Polyamide 66

General		
Material Status	Commercial: Active	
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>North America</li></ul>
Additive	Heat Stabilizer	
Features AKEP website	Heat Stabilized	Viscosity, Medium
Uses	<ul><li>Fasteners</li><li>Industrial Applications</li></ul>	<ul><li>Sheet</li><li>Structural Parts</li></ul>
Automotive Specifications	CHRYSLER MS-DB-41 CPN 5382 Color: Black	GM GMW16036P-PA66 Color: GM GMW16036P-PA66 Color: Black Natural
Part Marking Code (ISO11469) (ISO 11469)	• >PA66<	
Other Documentation		
Literature	Moldflow Data Molding Conditions SDS	

**General Information** 

Technical Handbook

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				ISO 62
Equilibrium, 23°C, 50% RH		2.5	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2900	1000	MPa	ISO 527-1
Tensile Stress				
Yield, 23°C	84.0	51.0	MPa	ISO 527-2
	79.0	57.0	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	4.5	26	%	ISO 527-2
Break	80	270	%	ASTM D638
Break, 23°C		> 100	%	ISO 527-2
Flexural Modulus				
	2800	1200	MPa	ASTM D790
23°C	2700	900	MPa	ISO 178

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.

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Mechanical	Dry	Conditioned	Unit	Test Method
Flexural Strength				
	118	54.0	MPa	ASTM D790
23°C	110	39.0	MPa	ISO 178
Taber Abrasion Resistance				ASTM D1044
1000 Cycles		5.00	mg	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0	30	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	49	180	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	80	55		ISO 2039-2
R-Scale	120	105		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	230		°C	ASTM D648
0.45 MPa, Unannealed	195		°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0		°C	ASTM D648
1.8 MPa, Unannealed	65.0		°C	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+14		ohms	ASTM D257 IEC 60093
Volume Resistivity				
	1.0E+15		ohms∙cm	ASTM D257
23°C	1.0E+15		ohms∙cm	IEC 60093
Dielectric Strength	20		kV/mm	ASTM D149 IEC 60243-1
Comparative Tracking Index				IEC 60112
3.00 mm	525		V	

#### **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

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

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