Leona[™] 1300S

Asahi Kasei Corporation - Polyamide 66

General Information						
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Material Status	Commercial: Active					
Availability	 Africa & Middle East Asia Pacific	 Europe North America				
Features	Good Flow	Good Stiffness	• GoodTou	ughness		
Uses	Automotive ApplicationsConnectors	Consumer ApplicationsFittings		0		
	ASTM & ISO F	Properties 1				
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)	3000	1200	MPa	ISO 527-2		
TensileStress						
Yield, 23°C	82.0	52.0	MPa	ISO 527-2		
	79.0	57.0	MPa	ASTM D638		
TensileStrain						
Yield, 23°C Break	4.0	24	%	ISO 527-2		
Break, 23°C	50	250	%	ASTM D638		
Flexural		>100	%	ISO 527-2		
Modulus						
	2800	1200	MPa	ASTM D790		
23°C	2700	1100	MPa	150 178		
Flexural Strength						
	11	54.0	MPa			
23°C	8	42.0	MPa	ASTM D1044		
Taber Abrasion Resistance	11					
1000 Cycles	3	7.00	mg			
Impact	Dry	Conditioned	Unit	Test		
Charpy Notched Impact Strength	6.0	15	kJ/m²			
Charpy Unnotched Impact Strength	No Break	No Break		179 ASTM		
Notched Izod Impact	39	150	J/m	D256		
Hardness	Dry	Conditioned	Unit	Test		
Rockwell Hardness				Method		
M-Scale	80	55		ASTM D785		
R-Scale	120	108		150 2039-2		

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 - Data shown are typical values obtained by proper tools in interest and i

- 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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Thermal	Dry	Conditioned	Unit	Test
Deflection Temperature Under Load				Method
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
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			UL94
Glow Wire Flammability Index				IEC 60695-2-12
3.0 mm	960		°C	
Oxygen Index	26		%	ASTM D2863

Notes

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

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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.

⁻ 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.