

Leona™ 1300S

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 1300S is a Polyamide 66 (Nylon 66) product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 1300S include automotive, consumer goods, electrical/electronic applications and engineering/industrial parts.

Characteristics include:

Flame Rated

Good Stiffness

Good Toughness

General Information	
UL YellowCard	E48285-100076977
Features	Good Flow
	Good Stiffness
	Good Toughness
Uses	Automotive Applications
	Connectors
	Consumer Applications
	Fittings

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.14	--	g/cm ³	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
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	80	55		
R-Scale	120	108		
Mechanical	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 (1000 Cycles)	--	7.00	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	39	150	J/m	ASTM D256
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 (3.00 mm)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	V-2	--		UL 94
Glow Wire Flammability Index (3.00 mm)	960	--	°C	IEC 60695-2-12
Oxygen Index	26	--	%	ASTM D2863

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