

Leona™ 1700S

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 1700S is a Polyamide 66 (Nylon 66) product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 1700S include engineering/industrial parts, film and sheet.

Characteristics include:

High Molecular Weight

High Strength

Medium Viscosity

General Information				
Features		High Molecular Weight		
		High Strength		
		Medium Viscosity		
Uses		Film		
		Rods		
		Sheet		
		Structural Parts		
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	105		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3000	1100	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	84.0	50.0	MPa	ISO 527-2
--	80.0	59.0	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	4.5	27	%	ISO 527-2
Break	100	300	%	ASTM D638
Break, 23°C	--	> 100	%	ISO 527-2
Flexural Modulus				

--	2800	1200	MPa	ASTM D790
23°C	2800	900	MPa	ISO 178
Flexural Strength				
--	118	54.0	MPa	ASTM D790
23°C	115	39.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	4.00	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	7.0	28	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	49	250	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	215	--	°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+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
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	23	--	%	ASTM D2863

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