

LEONA™ 9400S

Asahi Kasei Corporation - Polyamide 66/6 Copolymer

General Information

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Features	• Good Toughness	• High Viscosity
Uses	• Film • Housings	• Industrial Applications • Structural Parts
Part Marking Code (ISO 11469)	• >PA66/6<	

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.14	--		ASTM D792
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 73°F, 50% RH)	--	2.8	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	392000	102000	psi	ISO 527-1
Tensile Strength	11500	6380	psi	ASTM D638
Tensile Stress (Yield, 73°F)	11600	5800	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	4.0	22	%	ISO 527-2
Tensile Elongation (Break)	60	260	%	ASTM D638
Tensile Strain (Break, 73°F)	--	> 100	%	ISO 527-2
Flexural Modulus	377000	116000	psi	ASTM D790
Flexural Modulus (73°F)	334000	102000	psi	ISO 178
Flexural Strength	15700	6380	psi	ASTM D790
Flexural Stress (73°F)	14100	4350	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.3	20	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	1.0	5.1	ft·lb/in	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	75	--		ASTM D785
Rockwell Hardness				ISO 2039-2
M-Scale	80	--		
R-Scale	120	--		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	374	--	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	329	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	140	--	°F	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	ASTM D257
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	ASTM D257
Volume Resistivity (73°F)	1.0E+15	--	ohms·cm	IEC 60093
Dielectric Strength	510	--	V/mil	ASTM D149
Electric Strength	510	--	V/mil	IEC 60243-1

Processing Information

Injection

Dry Unit



Drying Temperature - Vacuum Dryer	176 to 194 °F
Drying Time - Vacuum Dryer	2.0 to 3.0 hr
Processing (Melt) Temp	518 to 554 °F
Mold Temperature	167 to 185 °F

Notes

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

