

LEONA™ FH772

Asahi Kasei Corporation - Polyamide 66

General Information

General	
Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free
Uses	• Connectors • Electrical/Electronic Applications • Electrical Parts • Switches
Part Marking Code (ISO 11469)	• >PA66-GF25 FR(40)<

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.41	--		ASTM D792
Density	1.41	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	1.2	--	%	
Flow	0.40	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.3	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.42E+6	972000	psi	ISO 527-1
Tensile Strength	21800	--	psi	ASTM D638
Tensile Stress (Break, 73°F)	19700	13600	psi	ISO 527-2
Tensile Elongation (Break)	2.3	--	%	ASTM D638
Tensile Strain (Break, 73°F)	3.0	5.0	%	ISO 527-2
Flexural Modulus	1.35E+6	--	psi	ASTM D790
Flexural Modulus (73°F)	1.39E+6	957000	psi	ISO 178
Flexural Strength	31900	--	psi	ASTM D790
Flexural Stress (73°F)	30300	22300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.8	4.8	ft-lb/in ²	ISO 179
Charpy Unnotched Impact Strength	28	28	ft-lb/in ²	ISO 179
Notched Izod Impact	1.4	--	ft-lb/in	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	496	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	478	--	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	466	--	°F	ISO 75-2/A
CLTE - Flow	1.7E-5	--	in/in/°F	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (0.118 in)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.030 in)	V-0	--		UL 94
Glow Wire Flammability Index (0.12 in)	1760	--	°F	IEC 60695-2-12

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 536 °F
Mold Temperature	167 to 185 °F

Notes

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

