

Leona™ FG173

Asahi Kasei Corporation - Polyamide 66

General Information

General

Filler / Reinforcement	• Glass Fiber	
Additive	• Flame Retardant	
Features	• Flame Retardant	• Halogenated
Uses	• Connectors • Electrical Parts	• Electrical/Electronic Applications • Switches
Part Marking Code (ISO11469) (ISO 11469)	• >PA66-GF30 FR(17)<	

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.65	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	--	0.80	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11700	10500	MPa	ISO 527-1
Tensile Stress				
Break, 23°C	174	137	MPa	ISO 527-2
--	167	142	MPa	ASTM D638
Tensile Elongation				
Break	2.5	3.5	%	ASTM D638
Break, 23°C	2.0	2.0	%	ISO 527-2
Flexural Modulus				
--	10800	8300	MPa	ASTM D790
23°C	10300	8700	MPa	ISO 178
Flexural Strength				
--	250	221	MPa	ASTM D790
23°C	259	188	MPa	ISO 178



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Mechanical	Dry	Conditioned	Unit	Test Method
Taber Abrasion Resistance 1000 Cycles	--	29.0	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	50	52	kJ/m ²	ISO 179
Notched Izod Impact	88	98	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	100	60		ASTM D785 ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	260	--	°C	ASTM D648
0.45 MPa, Unannealed	262	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	252	--	°C	ASTM D648
1.8 MPa, Unannealed	245	--	°C	ISO 75-2/A
CLTE - Flow	3.0E-5	--	cm/cm/°C	ASTM D696
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	28	--	kV/mm	ASTM D149 IEC 60243-1
Comparative Tracking Index				IEC 60112
3.00 mm	275	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm)	V-0	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
3.0 mm	960	--	°C	

Notes

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

