

Leona™ FG172

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ FG172 is a Polyamide 66 (Nylon 66) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America.
Typical application: Electrical/Electronic Applications.
Characteristics include:
Flame Rated
Flame Retardant
Heat Stabilizer

General Information	
UL YellowCard	E48285-240906
Filler / Reinforcement	Glass Fiber
Additive	Flame Retardant
	Heat Stabilizer
Features	Flame Retardant
	Halogenated
	Heat Stabilized
Uses	Connectors
	Electrical Parts
	Electrical/Electronic Applications
	Switches

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.52	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Water Absorption				
Saturation, 23°C	--	1.1	%	
Equilibrium, 23°C, 50% RH	--	1.1	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	95	55		ASTM D785, ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9100	6600	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	136	107	MPa	ISO 527-2

--	153	123	MPa	ASTM D638
Tensile Elongation				
Break	2.5	2.7	%	ASTM D638
Break, 23°C	2.5	3.0	%	ISO 527-2
Flexural Modulus				
--	7600	5900	MPa	ASTM D790
23°C	8000	5000	MPa	ISO 178
Flexural Strength				
--	216	177	MPa	ASTM D790
23°C	208	152	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	24.0	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	7.0	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	64	62	kJ/m ²	ISO 179
Notched Izod Impact	75	92	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	255	--	°C	ASTM D648
0.45 MPa, Unannealed	256	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	248	--	°C	ASTM D648
1.8 MPa, Unannealed	240	--	°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 (3.00 mm)	250	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	V-0	--		UL 94
Glow Wire Flammability Index (3.00 mm)	960	--	°C	IEC 60695-2-12
Oxygen Index	37	--	%	ASTM D2863

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