

Leona™ FR370

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ FR370 is a Polyamide 66 (Nylon 66) product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Typical application: Electrical/Electronic Applications.
Characteristics include:
Flame Rated
Flame Retardant
Halogen Free

General Information		
UL YellowCard	E48285-101014982	E48285-240917
Additive	Flame Retardant	
Features	Flame Retardant	
	Halogen Free	
Uses	Connectors	
	Electrical Parts	
	Electrical/Electronic Applications	
	Switches	

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.16	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	0.90 to 1.6	--	%	Internal Method
Water Absorption				
Saturation, 23°C	--	2.3	%	
Equilibrium, 23°C, 50% RH	--	2.3	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	85	55		
R-Scale	120	110		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3600	1600	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	83.0	55.0	MPa	ISO 527-2
Break, 23°C	80.0	--	MPa	ISO 527-2
--	83.0	58.0	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	4.5	22	%	ISO 527-2
Break	7.0	70	%	ASTM D638

Break, 23°C	15	> 50	%	ISO 527-2
Flexural Modulus				
--	3300	1300	MPa	ASTM D790
23°C	3600	1500	MPa	ISO 178
Flexural Strength				
--	128	56.0	MPa	ASTM D790
23°C	124	54.1	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	7.00	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	58 kJ/m ²	No Break		ISO 179
Notched Izod Impact	29	98	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	240	--	°C	ASTM D648
0.45 MPa, Unannealed	239	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	--	°C	ASTM D648
1.8 MPa, Unannealed	78.0	--	°C	ISO 75-2/A
CLTE - Flow	7.0E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	ASTM D257, IEC 60093
Volume Resistivity				
--	1.0E+14	--	ohms·cm	ASTM D257
23°C	1.0E+14	--	ohms·cm	IEC 60093
Dielectric Strength	22	--	kV/mm	ASTM D149, IEC 60243-1
Comparative Tracking Index (3.00 mm)	600	--	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	36	--	%	ASTM D2863

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