

**LEONA™ FR370**

Asahi Kasei Corporation - Polyamide 66

**General Information**

General	
Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Flame Retardant</li> </ul>
Features	<ul style="list-style-type: none"> <li>Flame Retardant</li> <li>Halogen Free</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Connectors</li> <li>Electrical Parts</li> <li>Electrical/Electronic Applications</li> <li>Switches</li> </ul>
Part Marking Code (ISO 11469)	<ul style="list-style-type: none"> <li>&gt;PA66-FR(30)&lt;</li> </ul>

**Properties<sup>1</sup>**

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.16	--		ASTM D792
Density	1.16	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow	0.90 to 1.6	--	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	--	2.3	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	522000	232000	psi	ISO 527-1
Tensile Strength	12000	8410	psi	ASTM D638
Tensile Stress (Yield, 73°F)	12000	7980	psi	ISO 527-2
Tensile Stress (Break, 73°F)	11600	--	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	4.5	22	%	ISO 527-2
Tensile Elongation (Break)	7.0	70	%	ASTM D638
Tensile Strain (Break, 73°F)	15	> 50	%	ISO 527-2
Flexural Modulus	479000	189000	psi	ASTM D790
Flexural Modulus (73°F)	522000	218000	psi	ISO 178
Flexural Strength	18600	8120	psi	ASTM D790
Flexural Stress (73°F)	18000	7850	psi	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	7.00	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	1.9	2.9	ft·lb/in <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	28 ft·lb/in <sup>2</sup>	No Break		ISO 179
Notched Izod Impact	0.54	1.8	ft·lb/in	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	85	55		
R-Scale	120	110		
Rockwell Hardness				ISO 2039-2
M-Scale	85	55		
R-Scale	120	110		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	464	--	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	462	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	176	--	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	172	--	°F	ISO 75-2/A
CLTE - Flow	3.9E-5	--	in/in/°F	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method



Surface Resistivity	1.0E+13	--	ohms	ASTM D257
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+14	--	ohms·cm	ASTM D257
Volume Resistivity (73°F)	1.0E+14	--	ohms·cm	IEC 60093
Dielectric Strength	790	--	V/mil	ASTM D149
Electric Strength	790	--	V/mil	IEC 60243-1
Comparative Tracking Index (0.118 in)	600	--	V	IEC 60112
<b>Flammability</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (0.030 in)	V-0	--		UL 94
Glow Wire Flammability Index (0.12 in)	1760	--	°F	IEC 60695-2-12
Oxygen Index	36	--	%	ASTM D2863

### Processing Information

<b>Injection</b>	<b>Dry Unit</b>			
Drying Temperature - Vacuum Dryer	176 to 194 °F			
Drying Time - Vacuum Dryer	2.0 to 3.0 hr			
Processing (Melt) Temp	509 to 527 °F			
Mold Temperature	167 to 185 °F			

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

