

**LEONA™ 1442**

Asahi Kasei Corporation - Polyamide 66

**General Information**
**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active <sup>1</sup></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>PTFE Lubricant</li> </ul>
Features	<ul style="list-style-type: none"> <li>Heat Stabilized</li> <li>Low Friction</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Bearings</li> <li>Gears</li> <li>Siding Applications</li> </ul>
Part Marking Code (ISO 11469)	<ul style="list-style-type: none"> <li>&gt;PA66+PTFE&lt;</li> </ul>

**Properties <sup>2</sup>**

Physical	Dry	Conditioned	Unit	Test Method
Density	1.17	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Across Flow	0.023	--	in/in	Internal Method
Molding Shrinkage - Flow	1.9	--	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	--	2.4	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	479000	218000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	11500	7980	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	4.0	18	%	ISO 527-2
Flexural Modulus (73°F)	421000	203000	psi	ISO 178
Flexural Stress (73°F)	16700	7400	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	2.9	5.7	ft·lb/in <sup>2</sup>	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	410	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	163	--	°F	ISO 75-2/A
CLTE - Flow	3.9E-5	--	in/in/°F	ASTM D696

**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 554 °F
Mold Temperature	167 to 185 °F

**Notes**
<sup>1</sup> All data is provisional.

<sup>2</sup> Typical properties: these are not to be construed as specifications.
