

Leona™ 1542

Asahi Kasei Corporation - Polyamide 66

General Information

General		
Additive	• PTFE Lubricant	
Features	• Heat Stabilized	• High Strength
	• High Molecular Weight	• Low Friction
Uses	• Automotive Applications	• Gears
	• Bearings	• Siding Applications
Part Marking Code (ISO11469) (ISO 11469)	• >PA66+PTFE<	

ASTM & ISO Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density	1.17	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	2.2	--	%	
Flow	1.8	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	--	2.4	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3300	1300	MPa	ISO 527-1
Tensile Stress (Yield, 23°C)	78.0	52.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.0	27	%	ISO 527-2
Flexural Modulus (23°C)	2900	1200	MPa	ISO 178
Flexural Stress (23°C)	114	46.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	18	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	201	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	64.0	--	°C	ISO 75-2/A
CLTE - Flow	7.0E-5	--	cm/cm/°C	ASTM D696

Notes

¹ All data is provisional.

² Typical properties: these are not to be construed as specifications.

