

LEONA™ 1542

Asahi Kasei Corporation - Polyamide 66

General Information

General	
Material Status	<ul style="list-style-type: none"> Commercial: Active ¹
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific Europe North America
Additive	<ul style="list-style-type: none"> PTFE Lubricant
Features	<ul style="list-style-type: none"> Heat Stabilized Low Friction Medium Viscosity
Uses	<ul style="list-style-type: none"> Automotive Applications Bearings Gears Siding Applications
Automotive Specifications	<ul style="list-style-type: none"> STELLANTIS MS-DB-41 CPN 5375 Color: Black
Part Marking Code (ISO 11469)	<ul style="list-style-type: none"> >PA66+PTFE<

Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density	1.17	--	g/cm ³	ISO 1183
Molding Shrinkage - Across Flow	0.022	--	in/in	Internal Method
Molding Shrinkage - Flow	1.8	--	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	--	2.4	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	479000	189000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	11300	7540	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	4.0	27	%	ISO 527-2
Flexural Modulus (73°F)	421000	174000	psi	ISO 178
Flexural Stress (73°F)	16500	6670	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	2.9	8.6	ft·lb/in ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	394	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	147	--	°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
¹ All data is provisional.

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