

LEONA™ 90G60 BK

Asahi Kasei Corporation - Polyamide 66/6I Copolymer

General Information

General	
Material Status	Commercial: Active
Availability	- Africa & Middle East - Asia Pacific - Europe - North America
Filler / Reinforcement	Glass Fiber, 60% Filler by Weight
Features	- Good Weather Resistance - High Flow - Pleasing Surface Appearance - UV Resistant
Uses	- Automotive Applications - Automotive Exterior Parts - Industrial Applications - Windows & Doors
Automotive Specifications	GM GMW15702 -110047
Part Marking Code (ISO 11469)	>PA66/6I-GF60<

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.72	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.0	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	3.28E+6	1.99E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	35700	25500	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.0	3.0	%	ISO 527-2
Flexural Modulus (73°F)	2.71E+6	2.51E+6	psi	ISO 178
Flexural Stress (73°F)	57600	42200	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.7	7.1	ft·lb/in ²	ISO 179
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	95	--		ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	430	--	°F	ISO 75-2/A
CLTE - Flow	1.1E-5	--	in/in/°F	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Electric Strength	710	--	V/mil	IEC 60243-1
Comparative Tracking Index (0.118 in)	475	--	V	IEC 60112

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	527 to 563 °F
Mold Temperature	185 to 203 °F

