

General				
Material Status	• Commercial: Active			
Availability	• Africa & Middle East	• Asia Pacific	• Europe	
Filler / Reinforcement	• Glass Fiber Reinforcement, 50% Filler by Weight			
Features	• High Stiffness	• Pleasing Surface Appearance		
Uses	• Automotive Applications • Electrical/Electronic Applications	• Household Goods • Industrial Applications		
Forms	• Pellets			

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.58	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage				
Flow: 3.00 mm	0.20	--	%	ASTM D955
Across Flow: 3.00 mm	0.50	--	%	ASTM D955
Across Flow	0.50	--	%	ISO 294-4
Flow	0.20	--	%	ISO 294-4
Water Absorption				
24 hr	--	1.1	%	ASTM D570
Equilibrium, 23°C, 50% RH	--	1.2	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17200	14500	MPa	ISO 527-2
Tensile Stress				
Break	244	192	MPa	ISO 527-2
--	235	196	MPa	ASTM D638
Tensile Elongation				
Break	2.5	3.0	%	ASTM D638
Break	2.0	3.0	%	ISO 527-2
Flexural Modulus				
--	15500	12100	MPa	ASTM D790
--	14200	12000	MPa	ISO 178
Flexural Strength				
--	373	304	MPa	ASTM D790
--	355	239	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	14	14	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	88	84	kJ/m ²	ISO 179
Notched Izod Impact	130	130	J/m	ASTM D256

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				
M-Scale	90	--		ASTM D785
R-Scale	120	--		ASTM D785 ISO 2039-2
M-Scale	80	--		ISO 2039-2

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	240	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	225	--	°C	ASTM D648 ISO 75-2/A
CLTE - Flow	0.000020	--	cm/cm/°C	ASTM D696

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating - UL	HB	--		UL 94

Additional Information				
Dry	The values listed as Mold Shrinkage, were tested in accordance with Asahi Kasei method.			

Leona™ 90G50
Polyamide 66
Asahi Kasei Chemicals Corporation

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Notes

¹ Typical properties: these are not to be construed as specifications.