

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Filler / Reinforcement	• Glass Fiber, 55% Filler by Weight		
Features	• Good Stiffness • Good Strength	• High Flow • Pleasing Surface Appearance	• UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Industrial Applications • Windows & Doors	

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.64	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Water Absorption				
Saturation, 23°C	--	1.1	%	
Equilibrium, 23°C, 50% RH	--	1.1	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	18600	14800	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	232	163	MPa	ISO 527-2
--	221	181	MPa	ASTM D638
Tensile Elongation				
Break	2.0	3.0	%	ASTM D638
Break, 23°C	2.0	3.0	%	ISO 527-2
Flexural Modulus				
--	15700	12700	MPa	ASTM D790
23°C	15400	12300	MPa	ISO 178
Flexural Strength				
--	348	284	MPa	ASTM D790
23°C	394	269	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	13	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	82	71	kJ/m ²	ISO 179
Notched Izod Impact	110	120	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785 ISO 2039-2
M-Scale	95	88		
R-Scale	120	115		

Disclaimer:

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage. These data may be changed because of improvement in properties.
- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.
- Do not use plastics in any of the following orally or medically-related applications.
- Orally-related application : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

Leona™ 90G55
Asahi Kasei Corporation - Polyamide 66

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	2.0E-5	--	cm/cm/°C	ASTM D696
Specific Heat	1930	--	J/kg/°C	
Thermal Conductivity	0.30	--	W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	ASTM D257 IEC 60093
Dielectric Strength	28	--	kV/mm	ASTM D149 IEC 60243-1
Comparative Tracking Index				IEC 60112
3.00 mm	450	--	V	

Notes

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

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