

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Creep Resistant • Fatigue Resistant	• Heat Stabilized • High Stiffness	• High Strength • Medium Heat Resistance
Uses	• Automotive Applications • Automotive Under the Hood	• Electrical/Electronic Applications • Structural Parts	
Automotive Specifications	• GM GMW15702-110032 Color: Black		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.39	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.40	--	%	
Water Absorption				
Saturation, 23°C	--	1.7	%	
Equilibrium, 23°C, 50% RH	--	1.7	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9800	7800	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	208	143	MPa	ISO 527-2
--	210	135	MPa	ASTM D638
Tensile Elongation				
Break	3.0	5.0	%	ASTM D638
Break, 23°C	4.0	6.0	%	ISO 527-2
Flexural Modulus				
--	10400	6300	MPa	ASTM D790
23°C	9600	6700	MPa	ISO 178
Flexural Strength				
--	325	210	MPa	ASTM D790
23°C	302	213	MPa	ISO 178
Taber Abrasion Resistance				ASTM D1044
1000 Cycles	--	15.0	mg	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	13	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	90	97	kJ/m ²	ISO 179
Notched Izod Impact	130	170	J/m	ASTM D256

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™ 14G33

Asahi Kasei Corporation - Polyamide 66

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	96	75		ISO 2039-2
R-Scale	120	--		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	260	--	°C	ASTM D648 ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ASTM D648 ISO 75-2/A
CLTE - Flow	2.0E-5	--	cm/cm/°C	ASTM D696
Thermal Conductivity	0.30	--	W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	--	ohms	ASTM D257 IEC 60093
Volume Resistivity				
--	1.0E+15	--	ohms·cm	ASTM D257
23°C	1.0E+15	--	ohms·cm	IEC 60093
Dielectric Strength	33	--	kV/mm	ASTM D149 IEC 60243-1
Comparative Tracking Index				IEC 60112
3.00 mm	425	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm)	HB	--		UL 94

Notes

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

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