

Leona™ 53G33

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 53G33 is a Polyamide 66 (Nylon 66) product filled with 33% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 53G33 include automotive, electrical/electronic applications, engineering/industrial parts and tanks.

Characteristics include:

- Creep Resistant
- Fatigue Resistant
- Heat Resistant
- Heat Stabilizer
- High Stiffness

General Information	
Filler / Reinforcement	Glass Fiber,33% Filler by Weight
Additive	Heat Stabilizer
Features	Fatigue Resistant
	Good Creep Resistance
	Heat Stabilized
	High Stiffness
	High Strength
Uses	Medium Heat Resistance
	Automotive Applications
	Electrical/Electronic Applications
	Structural Parts
	Tanks

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.35	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Water Absorption				
Saturation, 23°C	--	1.1	%	
Equilibrium, 23°C, 50% RH	--	1.1	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				
R-Scale	121	--		ASTM D785
M-Scale	97	88		ISO 2039-2
R-Scale	121	112		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus (23°C)	9500	7500	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	203	161	MPa	ISO 527-2
--	215	170	MPa	ASTM D638
Tensile Elongation				
Break	3.0	5.0	%	ASTM D638
Break, 23°C	4.0	6.0	%	ISO 527-2
Flexural Modulus				
--	8400	6700	MPa	ASTM D790
23°C	9700	7800	MPa	ISO 178
Flexural Strength				
--	309	261	MPa	ASTM D790
23°C	296	250	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	13	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	92	92	kJ/m ²	ISO 179
Notched Izod Impact	140	160	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	208	--	°C	ASTM D648, ISO 75-2/A
CLTE - Flow	2.0E-5	--	cm/cm/°C	ASTM D696
Thermal Conductivity	0.40	--	W/m/K	

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