LEONA™ 15G20

Asahi Kasei Corporation - *Polyamide 66*

General Information

General			
Material Status	• Commercial: Active [1]		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized	• High Viscosity	• Wear Resistant
Uses	• Automotive Electronics		
Part Marking Code (ISO 11469)	• >PA66-GF20<		

Properties [2]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	1.3	--	%	
Flow	0.60	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	--	2.0	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.09E+6	667000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	25800	16500	psi	ISO 527-2
Tensile Stress (Break, 73°F)	25500	15700	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.9	5.5	%	ISO 527-2
Tensile Strain (Break, 73°F)	4.4	10	%	ISO 527-2
Flexural Modulus (73°F)	1.02E+6	653000	psi	ISO 178
Flexural Stress (73°F)	38300	24500	psi	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	2.70	mg	ASTM D1044
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	4.3	6.2	ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength	45	48	ft·lb/in²	ISO 179
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785
M-Scale	96	81		
R-Scale	120	116		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	498	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	469	--	°F	ISO 75-2/A
CLTE - Flow	1.7E-5	--	in/in/°F	ASTM D696
CLTE - Transverse	3.6E-5	--	in/in/°F	ASTM D696

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	167 to 185	°F

Notes

[1] All data is provisional.

[2] Typical properties: these are not to be construed as specifications.