Leona™ 90G33

Asahi Kasei Corporation - Polyamide 66

Tuesday, April 10, 2018

General Information

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight	
Features	• High Flow • High Stiffness	• High Strength • Pleasing Surface Appearance
Uses	• Automotive Applications • Automotive Interior Parts	• Industrial Applications • Structural Parts

ASTM & ISO Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.39	--	g/cm³	ASTM D792 ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Water Absorption				
Saturation, 23°C	--	1.4	%	
Equilibrium, 23°C, 50% RH	--	1.4	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	10200	9300	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	180	150	MPa	ISO 527-2
--	194	157	MPa	ASTM D638
Tensile Elongation				
Break	3.0	4.0	%	ASTM D638
Break, 23°C	2.5	3.0	%	ISO 527-2
Flexural Modulus				
--	9600	7600	MPa	ASTM D790
23°C	10000	8100	MPa	ISO 178
Flexural Strength				
--	294	245	MPa	ASTM D790
23°C	238	216	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	6.0	12	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	55	54	kJ/m²	ISO 179
Notched Izod Impact	98	120	J/m	ASTM D256
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785 ISO 2039-2
M-Scale	90	--		
R-Scale	120	--		

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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	235	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	220	--	°C	ASTM D648 ISO 75-2/A
CLTE - Flow	3.0E-5	--	cm/cm/°C	ASTM D696

Notes

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