Leona™ 13G25

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 13G25 is a Polyamide 66 (Nylon 66) product filled with 25% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 13G25 include automotive, electrical/electronic applications and engineering/industrial parts.
Characteristics include:
Flame Rated
Creep Resistant
Fatigue Resistant
High Stiffness
High Strength

General Information	
UL YellowCard	E48285-240886
Filler / Reinforcement	Glass Fiber,25% Filler by Weight
Features	Fatigue Resistant Good Creep Resistance High Stiffness High Strength
Uses	Automotive Applications Automotive Under the Hood Electrical/Electronic Applications Structural Parts

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.32	--	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.90	--	%	
Flow	0.50	--	%	
Water Absorption				
Saturation, 23°C	--	1.9	%	
Equilibrium, 23°C, 50% RH	--	1.9	%	ISO 62
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	96	74		
R-Scale	120	--		
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	8200	5900	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	--	116	MPa	ISO 527-2

Break, 23°C	190	112	MPa	ISO 527-2
--	180	110	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	--	5.5	%	ISO 527-2
Break	3.0	6.0	%	ASTM D638
Break, 23°C	4.0	9.0	%	ISO 527-2
Flexural Modulus				
--	8100	4700	MPa	ASTM D790
23°C	7800	5000	MPa	ISO 178
Flexural Strength				
--	290	175	MPa	ASTM D790
23°C	275	170	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	12.0	mg	ASTM D1044
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	10	14	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength	68	92	kJ/m^2	ISO 179
Notched Izod Impact	110	160	J/m	ASTM D256
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
1.8 MPa, Unannealed	245	--	°C	ISO 75-2/A
CLTE - Flow	3.0E-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	29	--	kV/mm	ASTM D149, IEC 60243-1
Comparative Tracking Index (3.00 mm)	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (0.750 mm)	HB	--		UL 94

Recommended distributors for this material

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