Lumid® LW4403A(W)

Polyamide 6

LG Chem Ltd.

Message:

Lumid® LW4403A(W) is a Polyamide 6 (Nylon 6) material filled with 40% glass fiber and 40% mineral. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of Lumid® LW4403A(W): Warp Resistant.
Typical application of Lumid® LW4403A(W): Automotive

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight Mineral,40% Filler by Weight		
Features	Low Warpage		
Uses	Automotive Applications Automotive Under the Hood		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.49	g/cm³	ASTM D792
Molding Shrinkage - Flow (23°C, 3.20 mm)	0.50 to 1.1	%	ASTM D955
Water Absorption (Equilibrium)	0.90	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Break, 3.20 mm)	127	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	7350	MPa	ASTM D790
Flexural Strength [4] (Yield, 3.20 mm)	196	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm)	59	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	200	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (23°C)	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	21	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	3.00		ASTM D150
Arc Resistance [5]	130	sec	ASTM D495
Injection	**Nominal Value**	**Unit**	

Drying Temperature	80.0 to 100	°C
Drying Time	4.0 to 5.0	hr
Rear Temperature	245 to 265	°C
Middle Temperature	255 to 280	°C
Front Temperature	255 to 285	°C
Nozzle Temperature	255 to 285	°C
Processing (Melt) Temp	255 to 285	°C
Mold Temperature	80.0 to 100	°C

NOTE	
1.	5.0 mm/min
2.	5.0 mm/min
3.	1.3 mm/min
4.	1.3 mm/min
5.	23°C

Recommended distributors for this material

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