AuroraGuard™ 1F035MGF

Aurora Material Solutions, LLC - *Thermoplastic*

General Information

Product Description			
35% Mineral Glass Fiber Reinforced, Flame Retardant Formerly known as EnCounter 1F035MGF			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber\Mineral, 35% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant		
Uses	• Automotive Applications • Business Equipment	• Electrical/Electronic Applications • Structural Parts	
Appearance	• Black		
Processing Method	• Injection Molding		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.63		ASTM D792
Molding Shrinkage - Flow (0.126 in)	3.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	18700	psi	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1.40E+6	psi	ASTM D790
Flexural Strength	25500	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	1.4	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	419	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	385	°F	ASTM D648
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.06 in	• V-0 • 5V		
0.12 in	5V		
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Filler Content	35	%	

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	240 to 260	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 520	°F
Front Temperature	480 to 520	°F
Nozzle Temperature	470 to 510	°F
Processing (Melt) Temp	480 to 525	°F

Mold Temperature	150 to 190 °F
Injection Notes	
Maximum Drying Time 8 hrs	

Notes

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