

Vydyne® RF006EU

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

Vydyne RF006EU is an UV stabilized, 30% glass fiber reinforced PA66+PA6 for injection molded applications.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Agency Ratings	• ISO 1043 PA66+PA6 GF30
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-GF30

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	3.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.28E+6	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	24700	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.3	%	ISO 527-2
Flexural Modulus (73°F)	1.10E+6	psi	ISO 178
Flexural Stress (73°F)	33800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	6.7	ft-lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	419	°F	ISO 75-2/A
RTI Elec			UL 746B
0.06 in	266	°F	
0.12 in	266	°F	
RTI Imp			UL 746B
0.06 in	221	°F	
0.12 in	221	°F	
RTI Str			UL 746B
0.06 in	239	°F	
0.12 in	239	°F	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (0.0394 in)	1.0E+13	ohms·cm	IEC 60093
High Amp Arc Ignition (HAI)			UL 746A
0.06 in	PLC 1		
0.12 in	PLC 0		
Hot-wire Ignition (HWI)			UL 746A
0.06 in	PLC 4		
0.12 in	PLC 4		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	HB		
0.12 in	HB		

Processing Information



Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	491 to 527	°F
Middle Temperature	509 to 527	°F
Front Temperature	509 to 527	°F
Processing (Melt) Temp	509 to 527	°F
Mold Temperature	158 to 194	°F

Notes

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

