

Vydyne® RF006EU

polyamide 66



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

General

Regional Availability	• North America	• Europe
Agency Rating	• ISO, 1043 PA66+PA6 GF30	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	dry	cond.	Unit	Test Standard
Density	1.36	-	g/cm ³	ISO 1183
Water Absorption, 23°C, 24 hr	3	*	%	ISO 62

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	8800	-	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	170	-	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.3	-	%	ISO 527-2
Flexural Modulus (23°C)	7600	-	MPa	ISO 178
Flexural Strength (23°C)	233	-	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Notched Izod Impact Strength, +23°C	14	-	kJ/m ²	ISO 180/1A

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature, 1.80 MPa, Unannealed	215	-	°C	ISO 75-2/A
RTI Elec				UL 746
1.50 mm	130		°C	
3.00 mm	130		°C	
RTI Imp				UL 746
1.50mm	105		°C	
3.00 mm	105		°C	
RTI Str				UL 746
1.50 mm	115		°C	
3.00 mm	115		°C	

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Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E11	-	Ohm*m	IEC 60093
High Amp Arc Ignition (HAI)				UL 746
1.50 mm	PLC 1		-	
3.00 mm	PLC 0		-	
Hot-wire Ignition (HWI)				UL 746
1.50 mm	PLC 4		-	
3.00 mm	PLC 4		-	

Flammability	Value	Test Standard
Flammability		UL 94
1.50 mm	HB	
3.00 mm	HB	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	255 - 275	°C
Middle Temperature	265 - 275	°C
Front Temperature	265 - 275	°C
Processing (Melt) Temperature	265 - 275	°C
Mold Temperature	70 - 90	°C

