

Vydyne® 41HFE BL0887

polyamide 66



Vydyne 41HFE BL0887 is a high impact modified, metal and x-ray detectable, heat stabilized PA66. This resin imparts good toughness and impact resistance while offering metal and x-ray detectability in critical applications.

General

Regional Availability	• North America • South and Central America	• Europe • Near East/Africa	• Asia Pacific
Additive	• Heat Stabilizer	• Lubricant	• Release agent
Features	• Heat Stabilized	• High Impact Resistance	• Lubricated
Agency Rating	• ASTM, D4066 PA0160B2362 • SAE, J1639 PA0172	• ASTM, D6779 PA0160B2362	• ISO, 1043 PA66 MED(x)
Appearance	• Blue		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.32	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.1	*	%	
Flow : 23°C, 2.00 mm	0.8	*	%	
Water Absorption				ISO 62
23°C, 24 hr	1.1	*	%	
Equilibrium, 23°C, 50% RH	1.1	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	1700	800	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	38	32	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	33	>50	%	ISO 527-2
Flexural Modulus (23°C)	1800	800	MPa	ISO 178
Flexural Strength (23°C)	45	18	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	25	47	kJ/m ²	
-30°C	13	12	kJ/m ²	
-40°C	13	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	N	kJ/m ²	

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-30°C	N	N	kJ/m²	
-40°C	N	N	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	22	52	kJ/m²	
-30°C	13	15	kJ/m²	
-40°C	13	15	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	57	53	°C	
0.45 MPa, Unannealed	115	152	°C	
Melting Temperature	260	*	°C	ISO 11357-3

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	25	23	kV/mm	IEC 60243

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Rear Temperature	280 - 310	°C
Middle Temperature	280 - 310	°C
Front Temperature	280 - 310	°C
Nozzle temperature	280 - 310	°C
Processing (Melt) Temperature	285 - 305	°C
Mold Temperature	65 - 95	°C

