

Product Texts

Vydyne R413J BK0836 is a black, electrically neutral heat stabilized impact-modified, 15% glass-fiber reinforced PA66 resin. R413J BK0836 is designed to produce a light on dark mark using an IR 1064nm laser.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.8 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	5200 / 3400	MPa	ISO 527
^[C] Stress at break	104 / 66	MPa	ISO 527
^[C] Strain at break	3.9 / 9.4	%	ISO 527
^[C] Charpy impact strength, +23°C	67 / 85	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	65 / 68	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	12 / 11	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	5.1 / 6.3	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	238 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	257 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	32 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	115 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Electric strength	31 / -	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.9 / *	%	Sim. to ISO 62
^[C] Density	1210 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Additives

Release agent

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Features

Laser Markable

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa