

Product Texts

HiDura ThermaPlus 24XLR8 BK0825 is a heat stabilized PA66 product designed for injection molding applications that is designed to maintain mechanical properties after extended exposure to temperatures up to 160 C.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.8 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2700 / 1200	MPa	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	6.1 / 20	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	5.7 / 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	61 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	181 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	102 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	124 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Electric strength	30 / 25	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.9 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.5 / *	%	Sim. to ISO 62
^[C] Density	1140 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets, Black

Regional Availability

North America, Europe, Asia Pacific

Additives

Lubricants