

Product Texts

ReDefyne IAI2H BK0858 is a 100% pre-consumer recycled polymer, medium impact modified, heat stabilized PA66. This product balances strength, ductility and thermal resistance making it an excellent choice for automotive fastener applications.

Processing/Physical Characteristics

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.8 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.6 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2800 / 1700	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	16 / 62	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	11 / 24	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	63 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	185 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	111 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	136 / *	E-6/K	ISO 11359-1/-2
Thickness tested	1.5 / *	mm	-
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

[C]: CAMPUS

Electrical properties

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E9 / -	Ohm*m	IEC 62631-3-1
^[C] Electric strength	12 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	525 / -	-	IEC 60112

[C]: CAMPUS

Other properties

	dry / cond	Unit	Test Standard
^[C] Water absorption	1.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.3 / *	%	Sim. to ISO 62
^[C] Density	1100 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

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

Certifications

Recycled Resin Content

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific, South and Central America