

ReDefyne™ IAI2H BK0858

polyamide 66



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.

General

Regional Availability	• North America • South and Central America	• Europe	• Asia Pacific
Additive	• Heat Stabilizer		
Features	• Abrasion Resistance • General Purpose • Heat Stabilized • Low Temperature Toughness	• Chemical Resistant • Good Processability • High Impact Resistance • Oil Resistant	• Gasoline Resistant • Good Toughness • Low Temperature Impact Resistance • Solvent Resistant
Automotive Specifications	• Ford WQ105A (compliance)	• VOLKSWAGEN VW50127 (compliance)	• VOLKSWAGEN VW50133 (compliance)
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.10	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.6	*	%	
Flow : 23°C, 2.00 mm	1.8	*	%	
Water Absorption				ISO 62
23°C, 24 hr	1.2	*	%	
Equilibrium, 23°C, 50% RH	2.3	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2800	1700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	60	45	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	52	40	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	22	60	%	ISO 527-2
Flexural Modulus (23°C)	2300	800	MPa	ISO 178
Flexural Strength (23°C)	70	24	MPa	ISO 178

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Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	16	62	kJ/m²	
-30°C	11	24	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	N	kJ/m²	
-30°C	N	N	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	18	44	kJ/m²	
-30°C	16	24	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	63	-	°C	
0.45 MPa, Unannealed	185	-	°C	
Melting Temperature	260	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	111	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	136	*	E-6/K	

Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E9	-	Ohm*m	IEC 60093
Dielectric Strength (1.00 mm)	12	-	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