

ReDefyne™ IAG25 BK0806

polyamide 66



ReDefyne IAG25 BK0806 is a (PA66 + PA6) 25% glass fiber filled black pre-consumer recycled grade with added impact for flexibility and strength.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Lubricant		
Features	• Balanced Stiffness/Toughness • Good Color Stability • Good Mold Release • Good Stiffness • Good Tensile Strength • Lubricated	• Bromine Free • Good Dimensional Stability • Good Processability • Good Strength • Good Toughness • Medium Viscosity	• General Purpose • Good Impact Strength • Good Rigidity • Good Surface Finish • Halogen Content, None • Non-Corrosive
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding	• Profile Extrusion	

Physical

	dry	cond.	Unit	Test Standard
Density	1.31	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.2	*	%	
Flow : 23°C, 2.00 mm	0.9	*	%	
Water Absorption				ISO 62
23°C, 24 hr	1.2	*	%	
Equilibrium, 23°C, 50% RH	1.7	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	8000	5500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	135	89	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.1	6.9	%	ISO 527-2
Flexural Modulus (23°C)	7000	4900	MPa	ISO 178
Flexural Strength (23°C)	190	113	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	13	17	kJ/m ²	
-30°C	6.8	8.5	kJ/m ²	
-40°C	7.2	7.1	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

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+23°C	78	85	kJ/m²
-30°C	61	63	kJ/m²
-40°C	58	60	kJ/m²
Notched Izod Impact Strength			
			ISO 180/1A
+23°C	12	14	kJ/m²
-30°C	6.5	7.8	kJ/m²
-40°C	5.9	7.1	kJ/m²

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	238	233	°C	
0.45 MPa, Unannealed	254	254	°C	
Melting Temperature	262	*	°C	ISO 11357-3

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	38	21	kV/mm	IEC 60243

