

ReDefyne™ IAG25 BK0806

 Ascend Performance Materials Operations LLC - *Polyamide 66*
General Information
Product Description

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

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Additive	• Lubricant
Features	<ul style="list-style-type: none"> • Balanced Stiffness/Toughness • Bromine Free • General Purpose • Good Color Stability • Good Dimensional Stability • Good Impact Resistance • Good Mold Release • Good Processability • Good Rigidity • Good Stiffness • Good Strength • Good Surface Finish • Good Tensile Strength • Good Toughness • Halogen Free • Lubricated • Medium Viscosity • Non-Corrosive
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding • Profile Extrusion
Resin ID	• PA66-GF25

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 73°F, 0.0787 in	1.2	--	%	
Flow : 73°F, 0.0787 in	0.90	--	%	
Water Absorption (24 hr, 73°F)	1.2	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.16E+6	798000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	19600	12900	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.1	6.9	%	ISO 527-2
Flexural Modulus (73°F)	1.02E+6	711000	psi	ISO 178
Flexural Stress (73°F)	27600	16400	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°F	3.4	3.4	ft·lb/in ²	
-22°F	3.2	4.0	ft·lb/in ²	
73°F	6.2	8.1	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°F	28	29	ft·lb/in ²	
-22°F	29	30	ft·lb/in ²	
73°F	37	40	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180/1A
-40°F	2.8	3.4	ft·lb/in ²	
-22°F	3.1	3.7	ft·lb/in ²	
73°F	5.7	6.7	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	489	489	°F	ISO 75-2/B



Deflection Temperature Under Load (264 psi, Unannealed)	460	451	°F	ISO 75-2/A
Melting Temperature	504	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (0.0394 in)	970	530	V/mil	IEC 60243-1

