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TECHNICAL DATA SHEET

AMALON6-33

NYLON 6 33% GLASS FILLED PELLET
INJECTION MOLDING GRADE

PRODUCT DESCRIPTION

AMALON-33 is a Nylon 6 reinforced with 33% glass fiber, chemically coupled and heat stabilized. Designed for injection molding applications requiring high strength, rigidity, dimensional stability, and heat resistance.

TYPICAL APPLICATIONS

- Automotive under-hood components
- Electrical and electronic housings
- Industrial equipment parts
- Pump and valve components
- Gears, bearings and mechanical components
- Power-tool housings and structural parts
- Appliance components
- Brackets, supports and reinforced molded parts
- Furniture and seating components

COLOR AVAILABILITY

Available in **Natural** and **Black**.

TYPICAL PROPERTIES

Property	ASTM Method	Typical Value	Units
Glass Fiber Content	-	33	%
Specific Gravity	ASTM D792	1.36	g/cm ³
Tensile Strength at Yield	ASTM D638	24,000	psi
Elongation at Break	ASTM D638	3.5	%
Flexural Modulus	ASTM D790	1,200,000	psi
Notched Izod Impact @ 73°F (23°C)	ASTM D256	2.0	ft-lb/in
Heat Deflection Temperature @ 66 psi	ASTM D648	255	°F

PROCESSING RECOMMENDATIONS

Parameter	Recommended Range
Drying Time	3 – 5 hours
Rear Barrel Temperature	450–470°F
Middle Barrel Temperature	465–490°F
Front Barrel Temperature	475–500°F
Mold Temperature	150–200°F

PACKAGING

Available in gaylords, supersacks, and custom packaging configurations.

DISCLAIMER

The values reported herein are typical test results and are intended for reference purposes only; they should not be used as specification limits. It is the user's responsibility to determine the suitability of this product for the intended application. No warranties, express or implied, including merchantability or fitness for a particular purpose, are made regarding the product or its use.