

material selection guide

THERMOPLASTICS TRIANGLE

AMORPHOUS HIGH PERFORMANCE MATERIALS

- High Service Temperature
- High Strength
- Hot Water and Steam Resistance
- Thermof ormability
- Structural

AMORPHOUS ENGINEERING PLASTICS

- General Purpose Structural Parts
- Moderate Strength
- Moderate Temperature
- Good Dimensional Stability
- Good Load Impact
- Easy Fabricated

AMORPHOUS COMMODITY PLASTICS

- Low Temperature
- Low Strength
- Good Bondability
- Good Machinability
- Good Formability
- Low Cost

GENERAL CHARACTERISTICS

AMORPHOUS PLASTICS

- Softens Over a Wide Temperature Range
- Good Formability
- Transparent
- Poor Chemical Resistance
- Bonds Well Using Adhesives or Solvents
- Prone to Stress Cracking
- Poor Fatigue Resistance
- Structural Applications Only
- Not Suitable for Bearing and Wear

SEMI-CRYSTALLINE PLASTICS

- Sharp Melting Point
- Poor Formability
- Opaque
- Good Chemical Resistance
- Difficult to Bond Using Adhesives or Solvents
- Resistant to Stress Cracking
- Good Fatigue Resistance
- Good for Bearing and Wear
- as well as structural applications

IMIDIZED MATERIALS

- Best Physical Properties Above 400°F
- Best Temperature Resistance
- High Temperature, High Load Bearing
- and Wearing Capabilities
- Good Chemical Resistance
- Maintains Strength and Softness

SEMI-CRYSTALLINE HIGH PERFORMANCE MATERIALS

- High Service Temperature
- Excellent Chemical Resistance
- High Purity

SEMI-CRYSTALLINE ENGINEERING PLASTICS

- General Purpose Bearing and Wear or Structural Parts
- Moderate Strength and Softness
- Good Chemical Resistance
- Moderate Temperature

SEMI-CRYSTALLINE COMMODITY PLASTICS

- Low Temperature
- Low Strength
- Good Chemical Resistance
- Low Moisture Absorption
- Lower Cost

GENERAL CHARACTERISTICS

materials	AMORPHOUS THERMOPLASTICS										SEMICRYSTALLINE THERMOPLASTICS										IMIDIZED MATERIALS					THERMOSET COMPOSITES						
	ABS	AMYLIC	PMMA	PC	PET	POLYCARBONATE	POLYSTYRENE	POLYURETHANE	PVC	UHMW PE	ACETAL	ALUMINUM	HDPE	LDPE	NYLON	NYLON	PBT	PFA	PET	PP	PP	PPS	PPT	PVD	UHMW PE	POLYIMIDE	POLYIMIDE	POLYIMIDE	POLYIMIDE	POLYIMIDE	EP	FR-4

Plastic Material Selection Guide

CL Gary



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