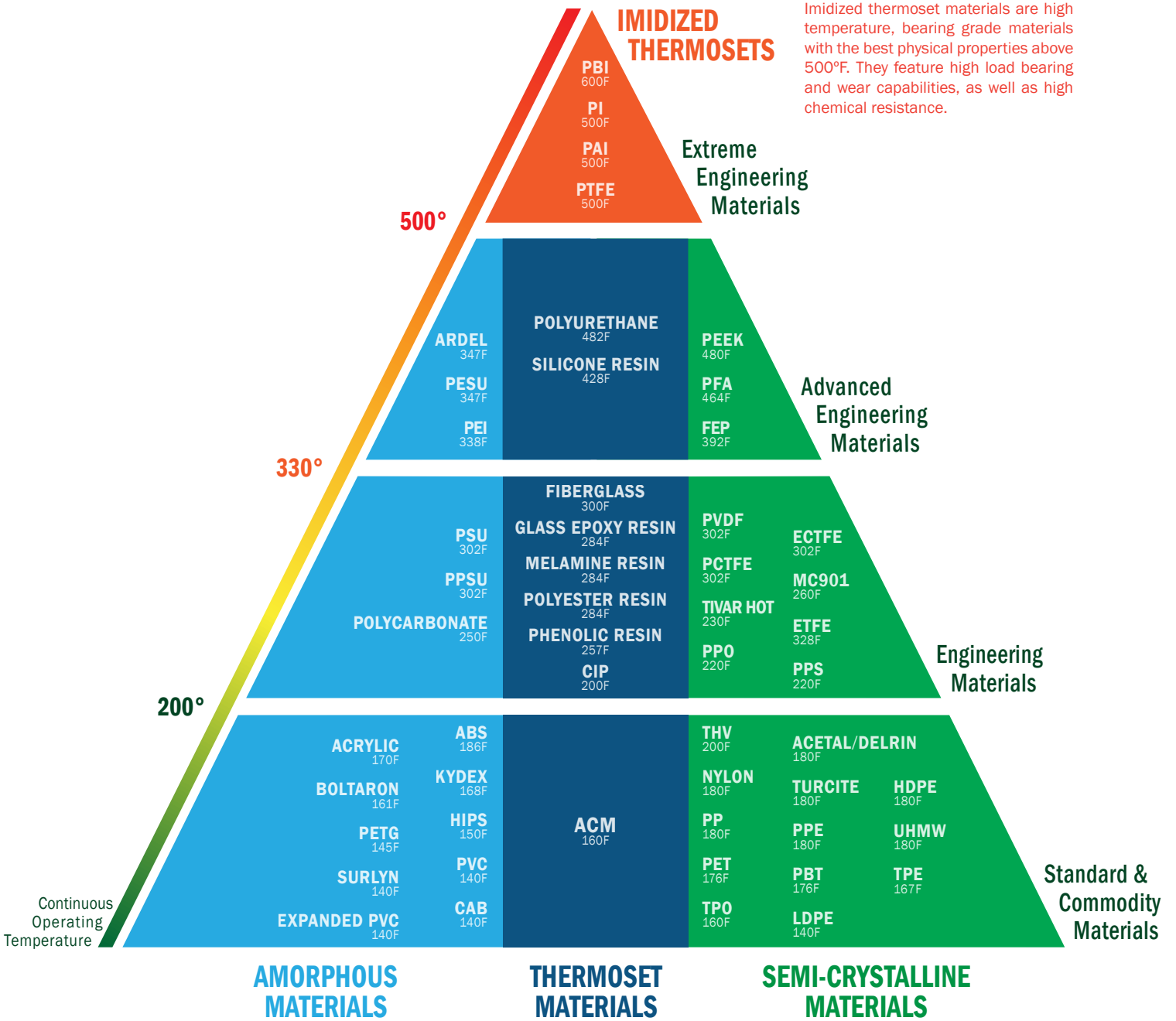


Plastics & Composites Selection Triangle

Material Classifications and Continuous Operating Temperatures



Imidized thermoset materials are high temperature, bearing grade materials with the best physical properties above 500°F. They feature high load bearing and wear capabilities, as well as high chemical resistance.

Amorphous plastics soften over a wide temperature range and are easy to thermoform. They are suited for structural applications and bond well using adhesives or solvents. They are not typically resistant to chemicals.

Thermoset materials strengthen when heat-formed, and cannot be reformed or reheated after initial forming. They are resistant to high operating temperatures, corrosion, and chemicals.

Semi-crystalline plastics have a sharp melting point and great chemical resistance. Semi-crystalline plastics are resistant to stress cracking and ideal for bearing, wear, and structural applications.



Austin, TX
(512) 386-7422

Birmingham, AL
(205) 620-9500

Boise, ID
(208) 322-4400

Des Moines, IA
(515) 276-5145

Los Angeles, CA
(562) 803-5599

Sacramento, CA
(916) 422-3110

Hayward, CA
(510) 483-4341

Seattle, WA
(253) 395-4885

Providing Your Solutions in Plastics:

ABS

SPARRALLOY
ROYALITE
CYCOLAC

ABS/PVC BLEND

KYDEX
BOLTARON

ACETAL/DELTRIN

SUSTARIN
ACETRON
DELTRIN AF

ACRYLIC (PMMA)

PLEXIGLAS
OPTIX
POLYCAST
LUCITE

ALUMINUM COMPOSITE (ACM)

DIBOND
POLYMETAL
ALUCOBOND
ALUPANEL

CAB (CELLULOSE)

BUTYRATE
TENITE
CELLIDOR
EXCELON
GEMEX

FEP

NEOFLOX
TECAFLON

FIBERGLASS / FRP

FIBERGLASS
GLASTIC
FIBERLITE

LCP

ARDEL

NYLONS (POLYAMIDE)

NYLATRON
VECTON
NYLOIL

PAI

TORLON PAI
DURATRON PAI

PBI

DURATRON PBI
CELAZOLE

PBT POLYESTER

HYDEX
VALOX

PET POLYESTER

ERTALYTE / ERTALYTE TX

PETG

VIVAK
EXCELON

PCTFE

NEOFLOX
KEL-F

PEEK

VICTRIX
KETRON 1000

PEI

ULTEM 1000 / ULTEM 2300

PESU

VERADEL

PFA

NEOFLOX
TECAFLON

PHENOLIC FIBERGLASS

NEMA G3

PHENOLIC RESIN-BASED PAPER LAMINATES

NEMA X / NEMA XX / NEMA XXX
ORKOT
PAPER PHENOLIC

CANVAS PHENOLIC RESIN-BASED LAMINATES

NEMA C / NEMA CE
ACCULAM
CANVAS PHENOLIC

LINEN PHENOLIC RESIN-BASED LAMINATES

NEMA L / NEMA LE
LINEN PHENOLIC

GLASS EPOXY RESIN-BASED LAMINATES

NEMA G10
NEMA G10/FR4
NEMA G11
NEMA G11/FR5
G10/FR4
G11/FR5

POLYESTER RESIN-BASED LAMINATES

NEMA GPO3
ORKOT

MELAMINE RESIN-BASED LAMINATES

NEMA G5 / NEMA G9

SILICONE RESIN-BASED LAMINATES

NEMA G7
SILICONE GLASS

POLYCARBONATE

POLYGAL
LEXAN
SUNGUARD
SUNLITE
TUFFAK
ZELUX

POLYETHYLENES (PE)

UHMW
HDPE / LDPE
TIVAR
POLYSTONE

POLYIMIDES (PI)

VESPEL
MELDIN

POLYPROPYLENE (PP)

PROTEUS
COR-X
COROPLAST
INTEPLAST

POLYSTYRENE (PS)

HIPS

POLYURETHANE (PU)

URETHANE
TYGOTHANE

PPE / PPO

TECANYL
NORYL

PPS

TECHTRON
TECATRON

PPS

RADEL

PSU

THERMALUX

PTFE

FLUOROSINT
TECAFLON PTFE

PVC/CPVC

VINYL
CORZAN
TROVIDUR

EXPANDED PVC

CELTEC
KOMMATEX
SINTRA
INTEPLAST

PVDF

SURLYN

TPE

TECAPUR

TPO

FORMALLOY

TURCITE

TURCITE A / B / X

TWINWALL & MULTIWALL POLYCARBONATE

POLYGAL
GALLINA

ADHESIVES

SCIGRIP WELD-ON
GE SCS SEALANT SILICONE

MACHINING TOOLS

LEISTER
FORREST
SLICE

PLASTIC CARE & RESTORATION

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(800) 742-3444



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