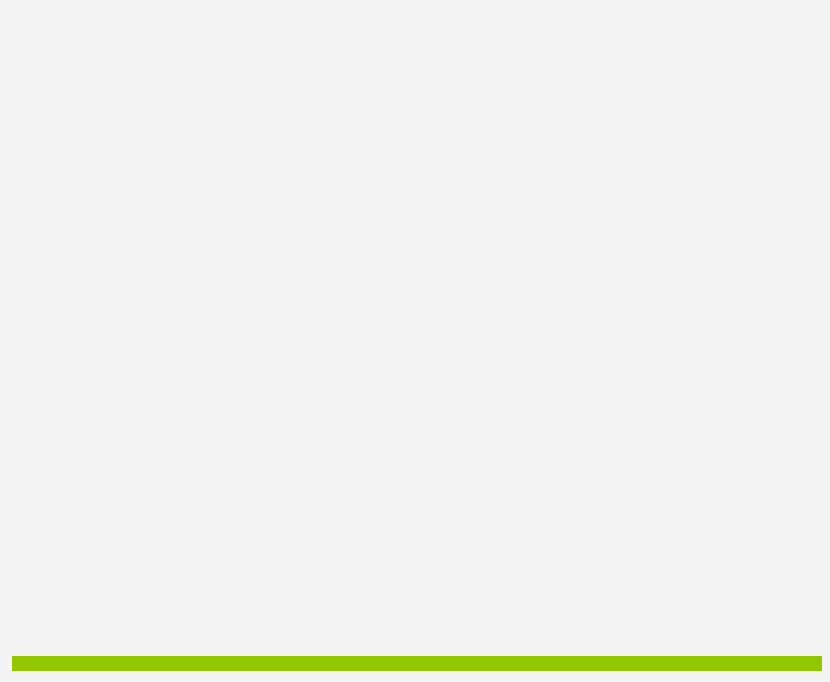


JADE

ENGINEERED PLASTICS, INC.

January 26, 2021

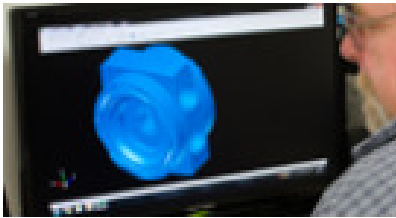


Family
Owned
Since
1976

After nearly four
decades we remain
committed to
providing precisely
engineered products
from the finest raw
materials, backed by
unparalleled quality
control at every step in
our process.

Capabilities

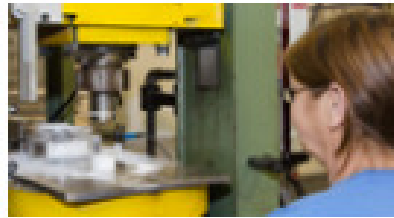
Engineering



Fabrication



Molding



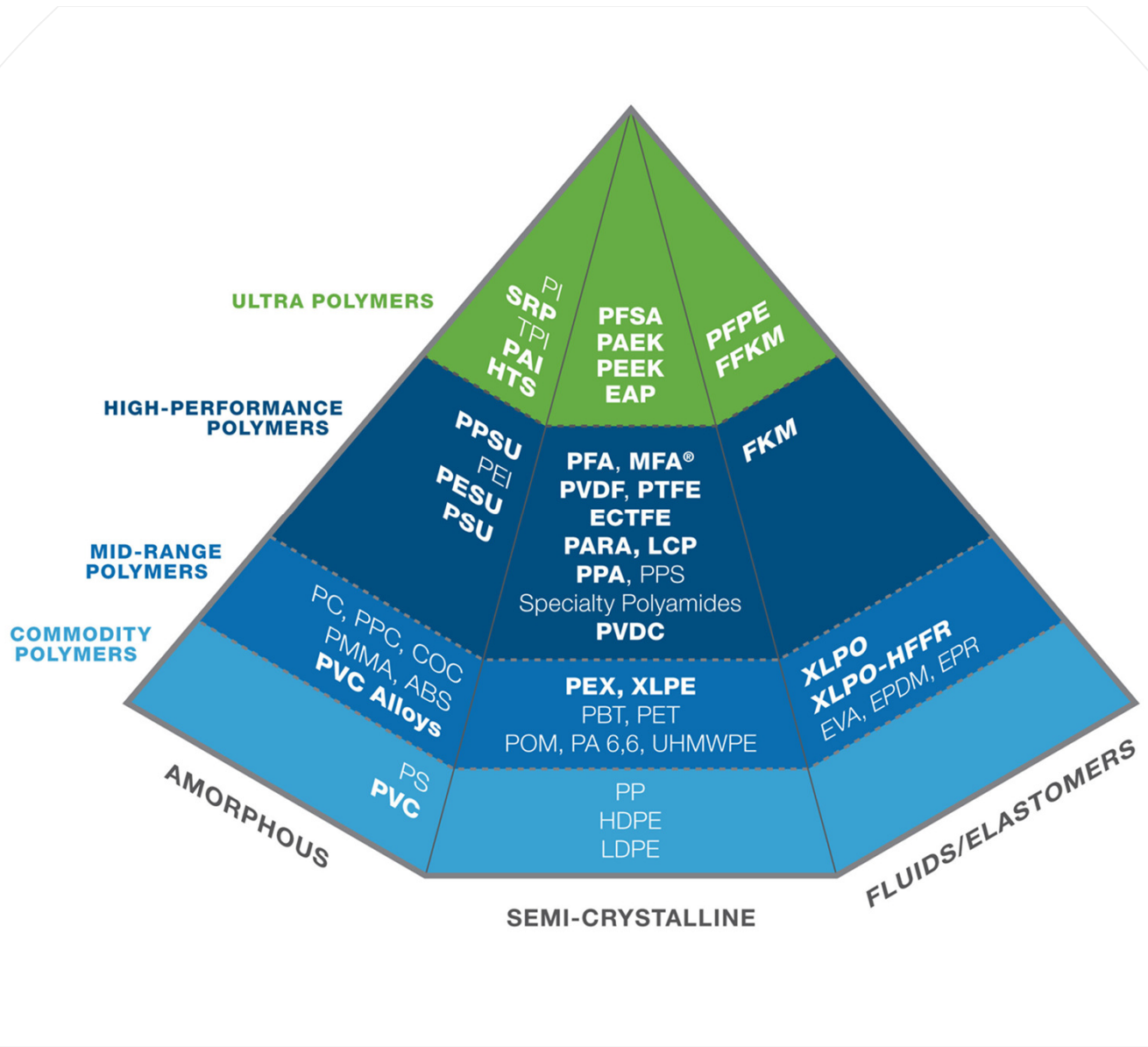
Custom Resin



PTFE manufacturing



- Material Selection
- Molding
- Sintering
- Fabrication
- Quality
- Packaging



Fluoropolymers

MATERIAL

PTFE

Poly-tetra-
fluoro-ethylene

PFA

Perfluoroalkoxy-copolymer

FEP

Fluorinated
Ethylene-Propylene

DESCRIPTION

- PTFE is also sold under the brand names Teflon and Dyneon

- Similar to properties to FEP
- Higher melting point
- Improved mechanical properties at higher service temperature compared to FEP
- PFA is also sold under the brand names Teflon and Dyneon

- Mechanical properties similar to PTFE
- Same electrical and chemical properties as PTFE
- Has higher tensile and impact strength than PTFE
- Harder and has better clarity vs PTFE
- Slightly lower coefficient of friction than PTFE
- Lower service temperature compared to PTFE

Fluoropolymers

PCTFE

Poly-chloro-
trifluoro-ethylene

- Higher tensile strength and improved clarity vs PTFE
- Has a lower softening point than PTFE
- Less chemical resistance compared to PTFE
- Lower electrical insulation vs PTFE
- PCTFE is also sold under the brand name Neoflon

ECTFE

CTFE/Ethylene copolymer

- Low creep and impact strength
- Behaves more like nylon than any of the fluoropolymers
- ECTFE is also sold under the brand name Halar

ETFE

TFE/Ethylene copolymer

- Similar properties to FEP
- Enhanced abrasion and impact properties vs FEP
- Lower service temperature than FEP
- ETFE is also sold under the brand name Tefzel



Fluoropolymers

PVDF

Poly-vinylidene copolymer

- Good properties at a relatively low price
- Good tensile and impact strength
- Generally good chemical resistance
- Sacrificed dielectric properties
- PVDF is also sold under the brand name Kynar

PVF

Poly-vinyl-fluoride

- Similar properties to PVC with better heat stability
- PVF is also sold under the brand name Teflon

**JLON**

JLON materials deliver these enhanced performance characteristics:

- Improved wear resistance
- Enhanced creep resistance
- Increased compressive strength
- Increased thermal conductivity
- Increased hardness
- Reduced coefficient of thermal expansion



JLON J-2000 PHYSICAL PROPERTIES

MATERIAL	FILLER(S)	ASTM >	SPECIFIC GRAVITY	TENSILE STRENGTH	ELONGATION @ BREAK	COMPRESSIVE MODULUS	COMP. STRENGTH @ 0.2% OFFSET	COMP. STRENGTH @ 5% STRAIN	DUROMETER HARDNESS
		UNITS >							
J-2500	PROPRIETARY		2.08	1,490	220	85,000	2,060	3,000	70
J-2000	PROPRIETARY		2.07	2,080	240	83,000	1,850	2,760	70
J-2100	PROPRIETARY		2.11	2,830	300	71,000	1,490	2,290	67
PTFE	-		2.16	4,360	320	50,000	1,050	1,660	63
FILLED PTFE	25% GLASS		2.24	2,080	280	67,000	1,240	2,070	65
MODIFIED PTFE	-		2.17	4,240	405	57,000	1,220	1,930	63



Jade products are available in three basic forms.

Stock shapes

Rods, tubes and sheets for the fastest delivery and ultimate convenience.

Near net shapes

For increased production efficiency, faster turnaround and less scrap.

Custom fabricated

Engineered, molded and fabricated to your specifications.



Sample parts





JADE
ENGINEERED PLASTICS, INC.



New Building



**New
Building**



NAM Award



Teflon Trademark
License



nqa ISO

ISO
9001:2008
CERTIFIED

JADE
ENGINEERED PLASTICS, INC.

Certifications and awards: