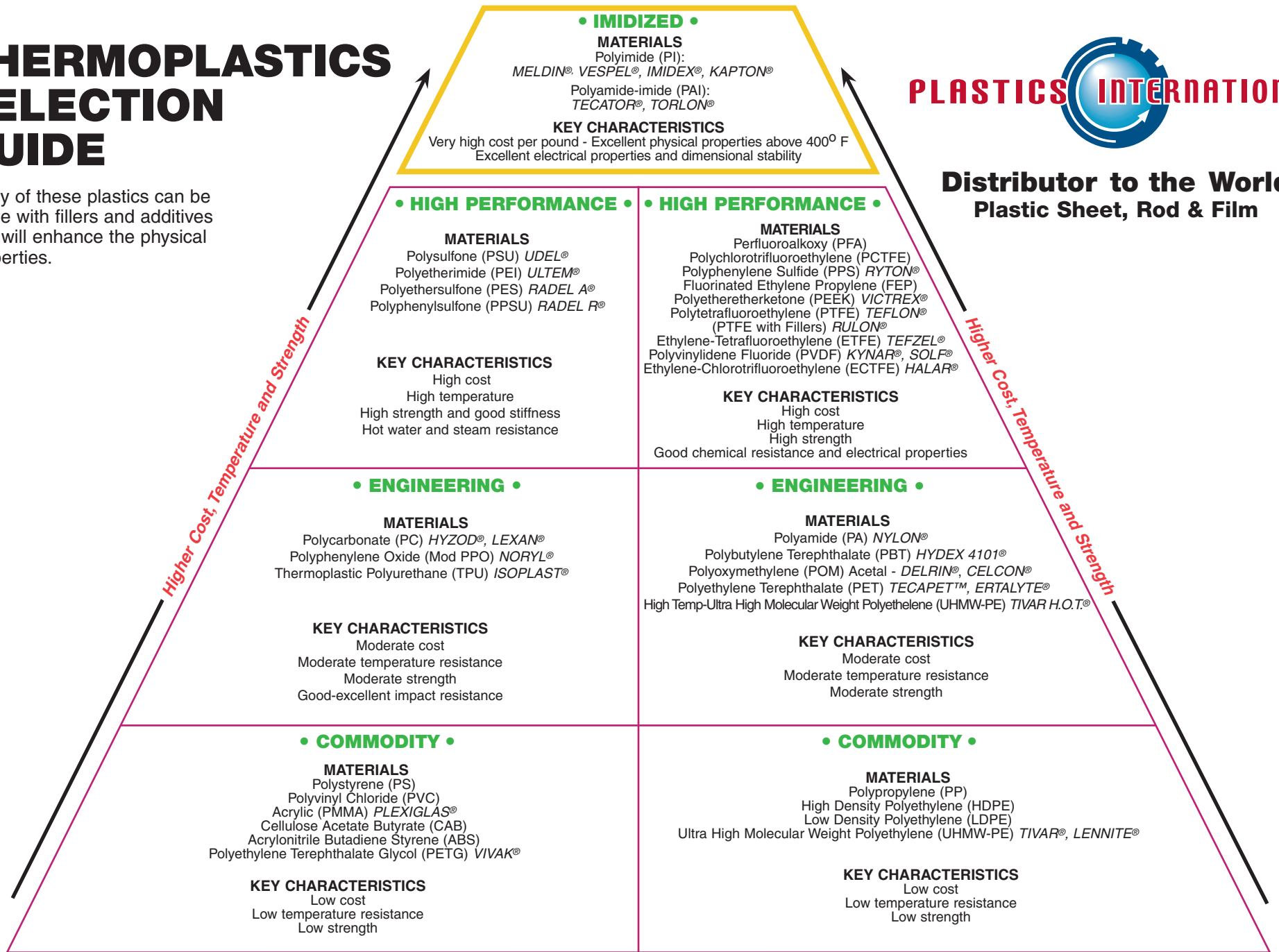


THERMOPLASTICS SELECTION GUIDE

*Many of these plastics can be made with fillers and additives that will enhance the physical properties.



Distributor to the World
Plastic Sheet, Rod & Film



• AMORPHOUS PLASTICS •

GENERAL CHARACTERISTICS

STRUCTURAL APPLICATIONS ONLY (NOT SUITABLE FOR BEARING AND WEAR)

- Soften over a broad range of temperature
- Easy to thermoform
- Tend to be translucent or transparent
- Bond well using adhesives and solvents
- Prone to stress cracking
- Poor fatigue resistance
- Poor chemical resistance

• SEMI-CRYSTALLINE PLASTICS •

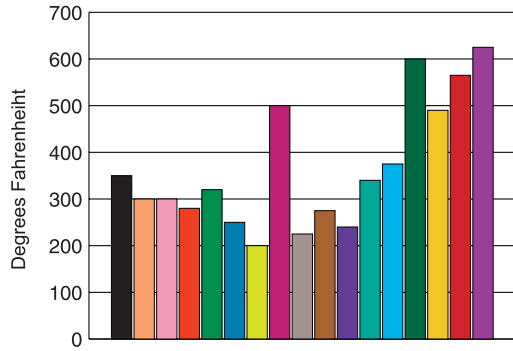
GENERAL CHARACTERISTICS

GOOD FOR BEARING AND WEAR AS WELL AS STRUCTURAL APPLICATIONS

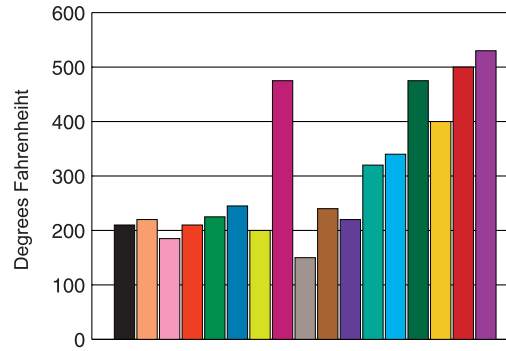
- Sharp melting point
- Difficult to thermoform
- Tend to be opaque
- Difficult to bond using adhesives and solvents
- Good resistance to stress cracking
- Good fatigue resistance
- Good chemical resistance
- Low coefficient of friction

PROPERTY COMPARISON CHART

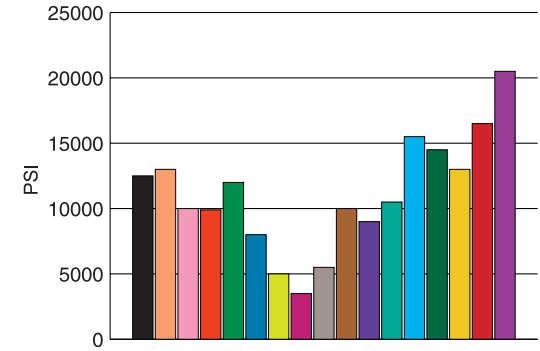
Operating Temperature Short Term



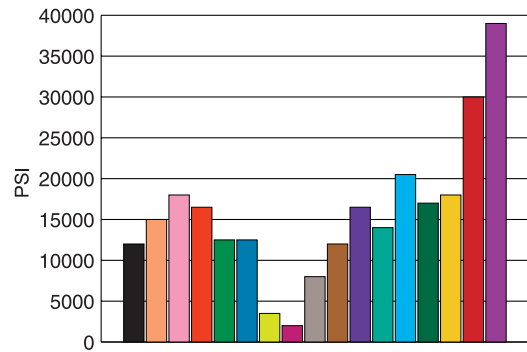
Operating Temperature Long Term (Constant)



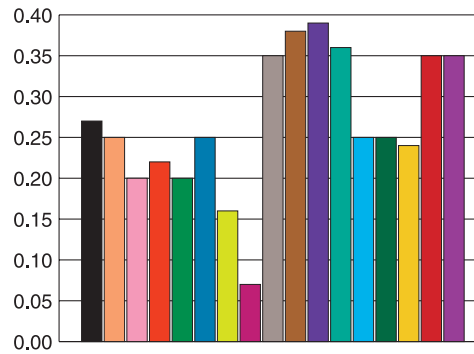
Tensile Strength



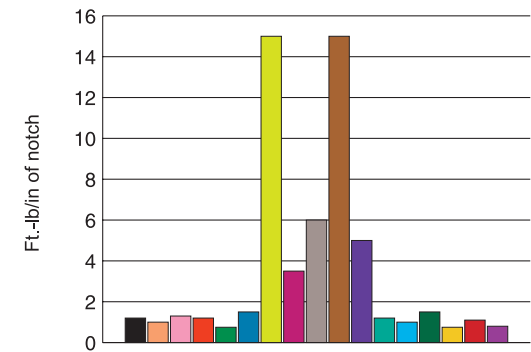
Compressive Strength



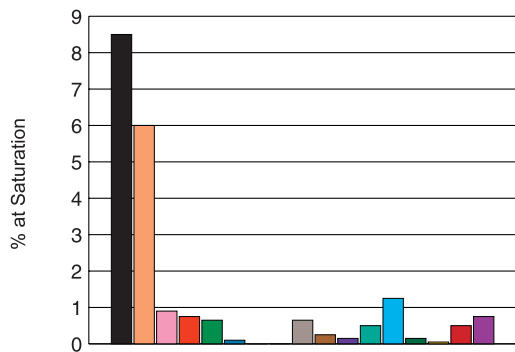
Coefficient of Friction



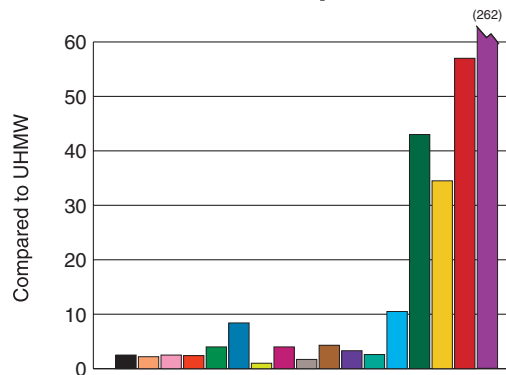
Impact Strength



Moisture Absorption



Cost Comparison



- Nylon 6/6
- Cast Nylon
- Delrin
- Acetal Copolymer
- Polyester PET-P
- Polyester PBT
- UHMW
- PTFE
- ABS
- Polycarbonate
- Noryl
- Polysulfone
- Ultem
- PEEK
- PPS
- PAI
- PI



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