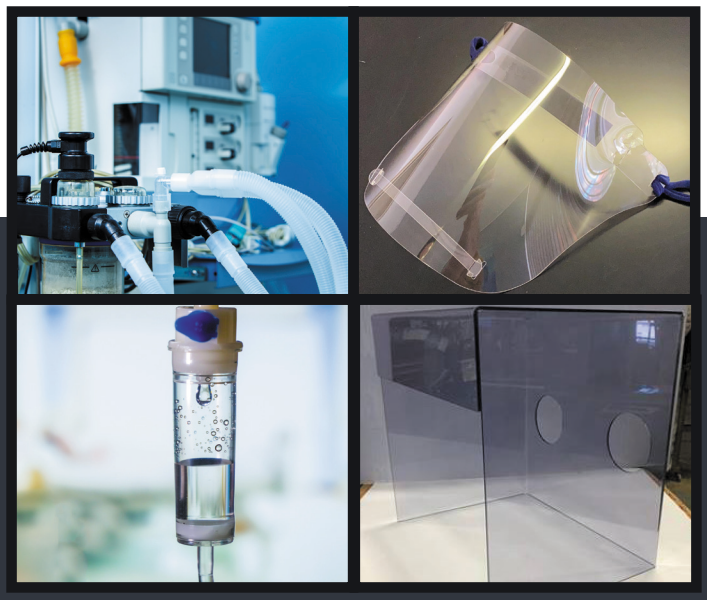
iapd
international association of plastics distribution

MEDICAL

Performance plastics are facilitating a new frontier of more types of outpatient treatments, less invasive procedures and longer lasting materials. Plus, anti-microbial plastics cut down on infections.

APPLICATIONS

- Surgical instrument handles/ grips
- Dental instrument handles/grips
- Orthopedic implants
- Pacemaker leads
- Endoscopic housing/eyepieces
- Sterilization trays/caddies
- X-ray and MRI parts
- Dialysis machines housings
- Respiratory units
- Pharmaceutical production/ packaging
- Fluid distribution-valve housings/ nozzles
- IV and infusion devices
- Diagnostic systems
- Feeding tubes
- Catheters



ADVANTAGES MAY INCLUDE

- Low manufacturing costs
- Low friction and wear
- Lightweight
- Resistant to high temperature, impact, chemicals
- Color coding options
- Easy to create ergonomic designs
- Maintains physical properties under thermal, chemical or electrical stress
- Good strength, toughness and hardness
- Can handle repeated sterilization
- Antimicrobial options
- Excellent wear properties
- Low-friction performance
- High purity
- Meets health regulations
- Meets precise dimensions
- Abrasion and shatter resistant
- Excellent thermal and oxidative stability

MATERIALS

- Acetal Copolymer (POM)
- Cyclic Olefin Copolymer (COC)
- Ethylene-Vinyl Acetate (EVA)
- Liquid Crystal Polymer (LCP)
- Polycarbonate (PC)
- Polyetheretherketone (PEEK)
- Polyethylene (PE)
- Polyetherimide (PEI)
- Polymethyl Pentene (PMP)
- Polyphenylene Oxide (PPO)
- Polyphenylene Sulfide (PPS)
- Polyphenylsulfone (PPSU)
- Polypropylene (PP)
- Polysulfone (PSU)
- Polyvinyl Chloride (PVC)
- PVC/Acrylic Alloy Sheet
- Silicone (SI)
- Styrene Acrylonitrile Copolymer (SAN)
- Styrene Maleic Anhydride-Polycarbonate (SMA-PC)
- Thermoplastic Elastomer (TPE)
- Thermoplastic Polyester (PBT)
- Thermoset Composite (Phenolics)
- Ultra-High Molecular Weight Polyethylene (UHMW-PE)

DID YOU KNOW?

Agricultural products are being recycled into “plastic wood” and numerous other secondary products, keeping those materials out of landfills, creating demand for recycling plants and making farms more sustainable.

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