CHEMICAL RESISTANCE

Plastic materials

The main characteristics of the plastic materials Polyamide 6, PC and ABS are the following:

- Excellent impact resistance combined with high rigidity and solidity.
- High thermal stability (self-extinguishing).
- Very good insulating qualities.
- High disruptive strength.
- High abrasion resistance.
- High weathering resistance.
- Very good chemical resistance to various chemicals.
- Free from cadmium and halogen (fluorine, chlorine, bromine, jodine, astatine).
- Conform to RoHs-Directive 2011/65/EU.

Chemical resistance

Chemicals	Concentration	Resistance	
		PA6	PC/ABS
Acetone		●	●
Aldehyde		●	●
Alcohols		●	●
Formic acid	4-5%	●	●
Amine		●	●
Ammonia	5%	●	●
Ammonium chloride	35%	●	●
Inorganic salts		●	●
Benzine		●	●
Benzol		●	●
Chlorine		●	●
Acetic acid	5%	●	●
Ester		●	●
Ethyl aether		●	●
Fats		●	●
Hydrofluoric acid		●	●
Formaldehyde	5%	●	●
Formalin	3-4%	●	●
Glycol		●	●
Glycerin		●	●

Chemicals	Concentration	Resistance	
		PA6	PC/ABS
Potassium hydroxide	50%	●	●
Ketone		●	●
Fuels		●	●
Methane		●	●
Petroleums		●	●
Sodium chloride		●	●
Sodium hydroxide	10%	●	●
Sodium hydroxide	2-8%	●	●
Nitrobenzene		●	●
Oils		●	●
Phosporic acid	10%	●	●
Propanol		●	●
Nitric acid	2%	●	●
Hydrochloric acid	2%	●	●
Sulfuric acid	50%	●	●
Propellants (propane-butane mixture		●	●
Water		●	●
Hydrogen peroxide	30%	●	●
Citric acid	20%	●	●

● Resistant ● Conditionally resistant ● Not resistant ● Not specified

The information about the resistance is valid with ambient temperature and can lead in coincidence of different medias to different resistances.

These indications do not exempt from own tests to determine the actual suitability of the products for the intended use.

Head Office. Leonardo da Vinci 2. Pol. Ind. Los Huertos. E-50800 Zuera - Zaragoza (Spain)
Phone: +34 976 451 080. E-mail: ide@ide.es · www.ide.es