



DELTA PLASTICS

ABS Acrylonitrile Butadiene Styrene

ABS standard grades have been developed specifically to meet the requirements of major customers. ABS is readily modified both by the addition of additives and by variation of the ratio of the three monomers Acrylonitrile, Butadiene and Styrene: hence grades available include high and medium impact, high heat resistance, and electroplatable. Fibre reinforcement can be incorporated to increase stiffness and dimensional stability. ABS is readily blended or alloyed with other polymers further increasing the range of properties available. Fire retardancy may be obtained either by the inclusion of fire retardant additives or by blending with PVC. The natural material is an opaque ivory colour and is readily coloured with pigments or dyes. Transparent grades are also available.

A variety of grades are available for different applications, the material is typically injection moulded or extruded.

PHYSICAL PROPERTIES

Tensile Strength	40-50	Mpa
Notched Impact Strength	10 - 20	Kj/m ²
Thermal Coefficient of expansion	70 - 90	x 10 ⁻⁶
Max Cont Use Temp	80 - 95	°C
Density	1.0 - 1.05	g/cm ³

RESISTANCE TO CHEMICALS

Dilute Acid	****
Dilute Alkalis	****
Oils and Greases	****
Aliphatic Hydrocarbons	**
Aromatic Hydrocarbons	*
Halogenated Hydrocarbons	*
Alcohols	* (variable)

KEY

*	poor	**	moderate	***	good	****	very good
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APPLICATIONS

Because of its good balance of properties, toughness/strength/temperature resistance coupled with its ease of moulding and high quality surface finish, ABS has a very wide range of applications. These include domestic appliances, telephone handsets, computer and other office equipment housings, lawn mower covers, safety helmets, luggage shells, pipes and fittings. Because of the ability to tailor grades to the property requirements of the application and the availability of electroplatable grades ABS is often found as automotive interior and exterior trim components.

CONTACT

DELTA PLASTICS LTD
UNIT 2, BILSTON INDUSTRIAL ESTATE,
OXFORD STREET, BILSTON, WEST MIDLANDS, WV14 7EG
TELEPHONE: +44 (0)1902 409627 FAX: +44 (0)1902 409673
EMAIL: sales@deltaplastics.co.uk