

ABS

MATERIAL TECHNICAL DATA SHEET

Description

Recognised as the ABS industry standard injection moulding grade and offers an optimum balance of impact toughness, product rigidity, heat resistance and mouldability.

Application

Typical applications include vacuum cleaner casings, electronic consumer goods assemblies, whitegoods fascia panels and handles, coffin fittings and handles as well as telecommunications equipment.

Safety

Material Safety Data Sheets are available.

Physical Properties (Typical)

Property	Test Method	Value	Units
Melt Index	ASTM D1238 @230°C, 3.8kg	5.0	g/10min
Melt Index	ASTM D1238 @220°C, 10kg	19.0	g/10min
Specific Gravity	ASTM D792	1.05	-
Rockwell Hardness	ASTM D785	102	R
Water Absorption	ASTM D570 24 hours	0.25	%
Mould Shrinkage	ASTM D955 3.0mm plaque	0.6±0.2	%
Notched Izod Impact Strength	ASTM D256	275	J/m
Tensile Strength	ASTM D638	41	MPa
Elongation to Fail	ASTM 638	55	%
Flexural Strength	ASTM D790	71	MPa
Flexural Modulus	ASTM D790	2250	MPa
Heat Deflection Temperature	ASTM D648 12.7 x 12.7mm @ 1.82MPa	88	°C
	ASTM D648 12.7 x 6.4mm @ 1.82MPa	83	°C
	ASTM D648 12.7 x 3.2mm @ 1.82MPa	77	°C
VICAT Softening Temperature	ASTM D1525 1kg	102	°C
UL Flammability	UL 94 1.6mm	HB	Rating
Glow Wire Temperature	AS 2420 1.6mm	550	°C

Typical properties not to be construed as specifications. Batch Certificates are available upon request.