

Data Sheet



Technical datasheet for: ABS / TPE

Overview and Structure: ABS/TPE is a multi-layer product made from ABS substrate, with a matt TPE surface layer.

Characteristics		Value	Unit	Test method
PHYSICAL PROPERTIES				
Density	23°C	$\geq 1.05 \leq 1.11$	g/cm ³	ISO 1183-1
MECHANICAL PROPERTIES				
Tensile E-Modulus	23°C	1 750	MPa	ISO 527
Yield stress	23°C	32	MPa	ISO 527
Elongation at break	23°C	60	%	ISO 527
Charpy notched impact strength	23°C	14	kJ/m ²	ISO 179/1epA
Abrasion resistance	H18, 550g, load 1000 cycles	10	mg/100 U/min	DIN 53754
THERMAL PROPERTIES				
Vicat B/50	50N / 50K/h	94	°C	ISO 306
HDT-A	1.82 MPa	92	°C	ISO 75
BURNING BEHAVIOUR				
Flammability classification*		HB		UL 94
MISCELLANEOUS PROPERTIES				
Moulding shrinkage		$\geq 0.5 \leq 0.9$	%	GENERAL TEST METHOD
Thermoforming temperature range		$\geq 160 \leq 200$	°C	GENERAL TEST METHOD

Unless otherwise stated, products are tested at a typical thickness of 4mm

¹ The impact values stated indicate the range that this grade meets and depends on thickness of the sheet, plus actual material grades selected in each layer for every customer's project – typically customized. Mechanical suitability for each formulation should be evaluated based on the material delivered.

* The density quoted should only be used as a guide. This value can change depending upon the type and quantity of pigment or additives used.

** Fire behaviour values given by raw material suppliers or by indicative test on raw material. Not intended as a specification.