



Document	ISO Datasheet
Description	ABS
Grade	A 20 180
Code	
Application	Injection moulding

Unfilled ABS. Medium flow.

Properties	Method	Unit	Value
Physical			
Melt Flow Rate (220°C - 10,00 Kg)	ISO 1133	g/10'	20
Density at 23°C	ISO 1183	g/cm ³	1,04
Mould Shrinkage (%)	INTERNAL	%	0,5
Thermal			
Vicat B50	ISO 306	°C	94
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	2400
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	78
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	40
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	18
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	17
Flammability Class			
Flammability class (1,5 mm)	UL94		HB
Flammability class (3,0 mm)	UL94		HB
Processing Conditions			
Melt Temperature Range	ISO 294	°C	210 - 240
Mold Temperature Range	ISO 294	°C	30 - 60
Injection Velocity	ISO 294		HIGH
Drying Temperature		°C	70-80
Drying Time		Hour	0,5-2
Regulations compliance			
RoHS compliance status	COMPLIANT		
EN71			
UL listed file n°			

Water contact approvals

Food contact status

[§] Moulding shrinkage is not an intrinsic property of plastics. It also depends on moulding parameters. The values reported have been calculated in the direction parallel to the flow in a 3.0 x 12.7 x 127 mm sample.

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