

Technical Data Sheet

Product Description

FM ABS01

ABS01 is a general grade ABS resin characterized by its general and electroplating use. Application includes electronic and electrical parts, automobile parts, refrigerator knobs and cosmetic cases.

Characteristic	Typical Value	Unit	ABS-10 specification	Test Method (ASTM)	Test Condition
<i>Izod impact</i>	30	Kj/m ²	Min 24	D-256	6.4 mm, notched
<i>Melt flow index</i>	32	gr/10 min	26-34	D-1238	220°C, 10 kg
<i>Rock well hardness</i>	105	R-scale	95-115	D-785	-
<i>HDT</i>	84	°C	Min 82	D-648	1.82 m pa
<i>Vicat softening temp</i>	94	°C	Min 93	D-1525	5kg/50°C
<i>Tensile strength</i>	420	Kg/cm ²	Min 380	D-638	23°C , 50 mm/min
<i>Tensile elongation</i>	25	%	Min 16	D-638	23°C , 50 mm/min
<i>Flexural strength</i>	600	Kg/cm ²	Min 560	D-790	23°C , 2.8 mm/min
<i>Flexural modulus</i>	19500	Kg/cm ²	Min 17000	D-790	23°C , 2.8 mm/min
<i>Specific gravity</i>	1.04	-	1.04	D-792	23°C
<i>Molding shrinkage</i>	0.4-0.7	%	0.4-0.7	D-955	-
<i>Flammability</i>	HB	-	HB	UI94	1/8inch (3.2mm)

Notes: Values shown are averages and are not to be considered as product specification. These values may shift slightly as additional data is accumulated. - ISO test methods are the latest under the society's current procedures.

Health & Safety

Ensure proper ventilation of the work environment to minimize health and safety hazards from fine particles. Ensure machinery and equipment is properly grounded to prevent sparks that can ignite dust. Molten polymers will cause thermal injuries to organic matter please ensure safety glasses and appropriate safety apparel is worn.

Typical ABS processing conditions

Drying: it is recommended that FM Plastics ABS Resins be dried at (80-90°C) for 3 hours. A moisture level of $\leq 0.1\%$ should be reached before injection molding the resin. The following molding conditions are recommended starting point for ABS Resin. Some modifications may be required depending on the specific molding equipment and part configuration.

Injection Moldin

<i>Rear Temp (°C)</i>	190-200	<i>Nozzle Temp (°C)</i>	215-225
<i>Center Temp (°C)</i>	200-210	<i>Melt Temp (°C)</i>	230
<i>Center Temp (°C)</i>	210-220	<i>Mold Temp (°C)</i>	60-80
<i>Front Temp (°C)</i>	210-220	<i>Filling Speed</i>	Slow-med

Packaging

ABS resins are supplied in pellet form packed in 25kg bags on 1.375 kg pallets or in 1.100 kg big bags.



Bultweg 11
8346 KA De Bult
The Netherlands

Broekslagen 6
8331 TJ Steenwijk
The Netherlands

F: +31 521 52 20 84
T: +31 521 52 00 41

www.fmplastics.nl
info@fmplastics.nl