KUMHO PETROCHEMICAL

beyond the best

Technical Data Sheet (ASTM)

ABS(Acrylonitrile Butadiene Styrene)
ABS 750SW

Features General easy flow, medium impact strength

Applications Electronics, Household appliances, Miscellaneous goods

Physical	Test Method	Value
Density	ASTM D792	1.04 g/cm^3
Melt Flow Index (220℃, 10kg)	ASTM D1238	38 g/10min
Melt Flow Index (200℃, 21.6kg)	ASTM D1238	52 g/10min
Mold Shrinkage	ASTM D955	0.5 ~ 0.8 %
Water absorption	ASTM D570	- %
Mechanical	**Test Method**	**Value**
Tensile Strength	ASTM D638	485 kgf/cm^2 (6,790) (psi)
Elongation	ASTM D638	15 %
Flexural Strength	ASTM D790	720 kgf/cm^2 (10,080) (psi)
Flexural Modulus	ASTM D790	24,500 kgf/cm^2 (347,900) (psi)
Izod Impact Strength(3.2mm, 23℃)	ASTM D256	24 kgf·cm/cm (4.4) (ft·lb/in)
Izod Impact Strength(6.4mm, 23℃)	ASTM D256	20 kgf·cm/cm (3.7) (ft·lb/in)
Rockwell Hardness(R scale)	ASTM D785	109
Thermal	**Test Method**	**Value**
Heat Deflection Temperature(18.6kgf/cm^2)	ASTM D648	85 ℃ (185) (℉)
Vicat Softening Temperature(5kg, 50℃/h)	ASTM D1525	95 ℃ (203) (℉)
Coefficient of Thermal Expansion	ASTM D696	9.0E-05 /℃

Flammability	Test Method	Value
Flame Rating - UL (1.6mm)	UL 94	HB

Notes

These are just typical properties, not specifications. Users should confirm results by their own test.

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Processing guide

Injection Guide	Unit	Value
Nozzle	℃	190~230
Front	℃	190~220
Middle	℃	180~210
Rear	℃	170~200
Hopper Throat	℃	45
Mold	℃	40~80

Drying	Unit	Value
Temperature	℃	60~80
Time	hr	2~4

Notes

These are only mentioned as general guidelines.