

Technical Data Sheet (ASTM)

ABS(Acrylonitrile Butadiene Styrene)

ABS 775

Features

Refrigerator sheet, High impact resistance

Applications

Refrigerator inner case, door liner (Cyclepentane foaming agent use)

Physical	Test Method	Value
Density	ASTM D792	1.04 g/cm ³
Melt Flow Index (220°C, 10kg)	ASTM D1238	5 g/10min
Melt Flow Index (200°C, 21.6kg)	ASTM D1238	7 g/10min
Mold Shrinkage	ASTM D955	0.5 ~ 0.8 %
Water absorption	ASTM D570	- %
Mechanical	Test Method	Value
Tensile Strength	ASTM D638	450 kgf/cm ² (6,300) (psi)
Elongation	ASTM D638	25 %
Flexural Strength	ASTM D790	620 kgf/cm ² (8,680) (psi)
Flexural Modulus	ASTM D790	23,000 kgf/cm ² (326,600) (psi)
Izod Impact Strength(3.2mm, 23°C)	ASTM D256	45 kgf-cm/cm (8.3) (ft-lb/in)
Izod Impact Strength(6.4mm, 23°C)	ASTM D256	35 kgf-cm/cm (6.4) (ft-lb/in)
Rockwell Hardness(R scale)	ASTM D785	105
Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm ²)	ASTM D648	87 °C (189) (°F)
Vicat Softening Temperature(5kg, 50°C/h)	ASTM D1525	97 °C (207) (°F)
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.