KUMHO PETROCHEMICAL

beyond the best

Technical Data Sheet (ASTM)

ABS(Acrylonitrile Butadiene Styrene)
ABS 740

Features High impact resistance

Applications Automobile parts(radiator grill etc), Helmets, Toys

Physical	Test Method	Value
Density	ASTM D792	1.04 g/cm^3
Melt Flow Index (220℃, 10kg)	ASTM D1238	25 g/10min
Melt Flow Index (200℃, 21.6kg)	ASTM D1238	35 g/10min
Mold Shrinkage	ASTM D955	0.5 ~ 0.8 %
Water absorption	ASTM D570	- %
Mechanical	**Test Method**	**Value**
Tensile Strength	ASTM D638	420 kgf/cm^2 (5,880) (psi)
Elongation	ASTM D638	25 %
Flexural Strength	ASTM D790	580 kgf/cm^2 (8,120) (psi)
Flexural Modulus	ASTM D790	20,000 kgf/cm^2 (284,000) (psi)
Izod Impact Strength(3.2mm, 23℃)	ASTM D256	36 kgf·cm/cm (6.6) (ft·lb/in)
Izod Impact Strength(6.4mm, 23℃)	ASTM D256	30 kgf·cm/cm (5.5) (ft·lb/in)
Rockwell Hardness(R scale)	ASTM D785	98

Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm^2)	ASTM D648	84 ℃ (183) (℉)
Vicat Softening Temperature(5kg, 50℃/h)	ASTM D1525	94 ℃ (201) (℉)

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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