

ABS 745HM

ABS

Kumho Petrochemical Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	13	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	13	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0065	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Yield stress	37	MPa	ISO 527
Strain at break	33	%	ISO 527
Flexural modulus, 23°C	1800	MPa	ISO 178
Flexural strength	55	MPa	ISO 178
Charpy impact strength, +23°C	46	kJ/m ²	ISO 179/1eU
Izod impact strength, +23°C	45	kJ/m ²	ISO 180/1U
Rockwell hardness	R 98	-	ISO 2039-2
ASTM Data			
Tensile Strength	38.2	MPa	ASTM D 638
Flexural Modulus	1664	MPa	ASTM D 790
Flexural Strength	51.9	MPa	ASTM D 790
Rockwell Hardness	R 98	-	ASTM D 785
Izod Impact unnotched, 1/8 in	539	J/m	ASTM D 256
Izod Impact unnotched, 1/4 in	432	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	78	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	89	°C	ISO 75-1/-2
Vicat softening temperature, B	93	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.6	mm	-
DTUL @ 264 psi	82.8	°C	ASTM D 648
Vicat Temperature	92.8	°C	ASTM D 1525
Other properties			
Density	1040	kg/m ³	ISO 1183
Density	1040	kg/m ³	ASTM D 792

Characteristics**Regional Availability**

North America, Europe, Asia Pacific