ABS 780F

ABS — Kumho Petrochemical Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**65**	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	**65**	g/10min	ASTM D 1238
Temperature	**220**	°C	-
Load	**10**	kg	-
Mold Shrinkage, MD	**0.0065**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	**42**	MPa	ISO 527
Strain at break	**24**	%	ISO 527
Flexural modulus, 23°C	**2100**	MPa	ISO 178
Flexural strength	**60**	MPa	ISO 178
Charpy impact strength, +23°C	**16**	kJ/m²	ISO 179/1eU
Izod impact strength, +23°C	**15**	kJ/m²	ISO 180/1U
Rockwell hardness	**R 105**	-	ISO 2039-2
ASTM Data			
Tensile Strength	**42.5**	MPa	ASTM D 638
Flexural Modulus	**1958**	MPa	ASTM D 790
Flexural Strength	**56**	MPa	ASTM D 790
Rockwell Hardness	**R 105**	-	ASTM D 785
Izod Impact unnotched, 1/8 in	**187**	J/m	ASTM D 256
Izod Impact unnotched, 1/4 in	**149**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**77**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**88**	°C	ISO 75-1/-2
Vicat softening temperature, B	**92**	°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	**82.2**	°C	ASTM D 648
Vicat Temperature	**92.2**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	**1040**	kg/m³	ISO 1183
Density	**1040**	kg/m³	ASTM D 792

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific