

**ABS 775**

ABS

Kumho Petrochemical Co., Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>5</b>	g/10min	ISO 1133
Temperature	<b>220</b>	°C	-
Load	<b>10</b>	kg	-
Molding shrinkage, parallel	<b>0.7</b>	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>5</b>	g/10min	ASTM D 1238
Temperature	<b>220</b>	°C	-
Load	<b>10</b>	kg	-
Mold Shrinkage, MD	<b>0.0065</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Yield stress	<b>43</b>	MPa	ISO 527
Strain at break	<b>27</b>	%	ISO 527
Flexural modulus, 23°C	<b>2350</b>	MPa	ISO 178
Flexural strength	<b>63</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>37</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Izod impact strength, +23°C	<b>36</b>	kJ/m <sup>2</sup>	ISO 180/1U
Rockwell hardness	<b>R 105</b>	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Strength	<b>43.4</b>	MPa	ASTM D 638
Flexural Modulus	<b>2252</b>	MPa	ASTM D 790
Flexural Strength	<b>59.8</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 105</b>	-	ASTM D 785
Izod Impact unnotched, 1/8 in	<b>443</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/4 in	<b>342</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>82</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>93</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>97</b>	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>1.6</b>	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>1.6</b>	mm	-
DTUL @ 264 psi	<b>87.2</b>	°C	ASTM D 648
Vicat Temperature	<b>97.2</b>	°C	ASTM D 1525
<b>Other properties</b>			
Density	<b>1040</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1040</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Special Characteristics**

High impact or impact modified

**Regional Availability**

North America, Europe, Asia Pacific

**Applications**

Refrigeration