



# Typical properties of ABS and applications

Grade			Good Flow	Middle Impact	Heat Resistance	For Extrusion Standard	For Extrusion High Impact
Item	Unit	Test Method	UT61	MT81	GT-10	ET-70	ST-55
Rheological Properties							
Melt Flow Rate	cm <sup>3</sup> /10min	ISO 1133	35	23	20	9	15
Mechanical Properties							
Tensile Stress at Yield	MPa	ISO 527	50	48	52	43	49
Flexural Modulus	MPa	ISO 178	2,400	2,300	2,500	2,100	2,100
Flexural Strength	MPa	ISO 178	76	72	81	66	74
Charpy Notched Impact Strength	kJ/m <sup>2</sup>	ISO 179	15	20	15	18	25
Rockwell Hardness	R Scale	ISO 2039	116	113	118	110	110
Thermal Properties							
Temperature of Deflection under Load	deg.C	ISO 75	81	78	85	81	82
Ball Pressure registration Temperature	deg.C	*1	90	90	95	-	-
Flammability	-	UL-94	HB	HB	HB	HB	HB
Other Properties							
Density	g/cm <sup>3</sup>		1.05	1.04	1.05	1.05	1.04
Application			Housewares, Electrical appliances (injection)	←	Machinery Parts (Injection)	Sheets, Housing-related materials	←

\*1 : Electrical Appliance and Material Safety Law