

ABS ER400

ABS

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	7	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	7	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	52	MPa	ISO 527
Yield strain	5	%	ISO 527
Strain at break	10	%	ISO 527
Flexural modulus, 23°C	2350	MPa	ISO 178
Flexural strength	76	MPa	ISO 178
Charpy notched impact strength, +23°C	20 ⁽¹⁾	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9 ⁽¹⁾	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	20 ⁽¹⁾	kJ/m ²	ISO 180/1A
Izod notched impact strength	8 ⁽¹⁾	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Strength at Yield	53	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	10	%	ASTM D 638
Flexural Modulus	2650	MPa	ASTM D 790
Flexural Strength	88	MPa	ASTM D 790
Rockwell Hardness	R 108	-	ASTM D 785
Izod Impact notched, 1/8 in	280	J/m	ASTM D 256
Izod Impact notched, 1/4 in	190	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	100	J/m	ASTM D 256
Temperature	-30	°C	-

1: 4 mm

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	84	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	92	°C	ISO 75-1/-2
Vicat softening temperature, B	101	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	101 ^[2]	°C	ASTM D 648
DTUL @ 264 psi	93 ^[2]	°C	ASTM D 648
Vicat Temperature	102	°C	ASTM D 1525

2: 6.4 mm

Other properties	Value	Unit	Test Standard
Density	1040	kg/m ³	ISO 1183
Density	1040	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding, Other Extrusion

Regional Availability

North America, Europe, Asia Pacific, South and Central America

Other text information

Injection Molding

Medium heat resistance, low TVOC, low gloss level.