

ABS XR401B

ABS

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	11	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	14	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	2350	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Flexural modulus, 23°C	2450	MPa	ISO 178
Flexural strength	79	MPa	ISO 178
Charpy notched impact strength, +23°C	14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	15	kJ/m ²	ISO 180/1A
Izod notched impact strength	7	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Rockwell hardness	R 113	-	ISO 2039-2
ASTM Data			
Tensile Strength at Yield	49	MPa	ASTM D 638
Elongation at Break	20	%	ASTM D 638
Flexural Modulus	2551	MPa	ASTM D 790
Flexural Strength	78.5	MPa	ASTM D 790
Rockwell Hardness	R 110	-	ASTM D 785
Izod Impact notched, 1/8 in	207	J/m	ASTM D 256
Izod Impact notched, 1/4 in	189	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	84.8	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	90	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	97	°C	ISO 75-1/-2
Vicat softening temperature, B	107	°C	ISO 306
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
DTUL @ 66 psi	101	°C	ASTM D 648
DTUL @ 264 psi	95	°C	ASTM D 648
Vicat Temperature	102	°C	ASTM D 1525
Electrical properties			
ISO Data			
Comparative tracking index	600	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	33	kV/mm	ASTM D 149
Volume Resistivity	1500	Ohm*cm	ASTM D 257
Other properties			
Value			
Density	1050	kg/m ³	ISO 1183
Density	1050	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.01	%	-
Melt temperature	220 - 240	°C	-
Mold temperature	40 - 60	°C	-
Zone 1	180 - 210	°C	-
Zone 2	210 - 230	°C	-
Zone 3	230 - 240	°C	-
Nozzle temperature	230 - 240	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	30 - 60	MPa	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

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