MABS TR552

MABS — LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**12**	g/10min	ASTM D 1238
Temperature	**220**	°C	-
Load	**10**	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	**39.2**	MPa	ASTM D 638
Elongation at Break	**35**	%	ASTM D 638
Flexural Modulus	**1835**	MPa	ASTM D 790
Flexural Strength	**60.8**	MPa	ASTM D 790
Rockwell Hardness	**R 100**	-	ASTM D 785
Izod Impact notched, 1/8 in	**226**	J/m	ASTM D 256
Izod Impact notched, 1/4 in	**226**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	**82**	°C	ASTM D 648

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	**2.2**	%	ASTM D 1003
Light Transmittance	**90**	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Density	**1060**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 90**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.01**	%	-
Melt temperature	**210 - 240**	°C	-
Mold temperature	**40 - 60**	°C	-
Zone 1	**190 - 210**	°C	-
Zone 2	**200 - 220**	°C	-
Zone 3	**210 - 230**	°C	-
Nozzle temperature	**210 - 240**	°C	-
Screw speed	**<80**	rpm	-
Back pressure	**30 - 60**	MPa	-

Characteristics

Processing
Injection Molding

Applications
Electrical and Electronical

Special Characteristics
High impact or impact modified, Transparent

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

Chemical Resistance
General Chemical Resistance