ABS ER461

ABS LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**15**	g/10min	ASTM D 1238
Temperature	**220**	°C	-
Load	**10**	kg	-
Mold Shrinkage, MD	**0.0055**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	**47.1**	MPa	ASTM D 638
Elongation at Break	**25**	%	ASTM D 638
Flexural Modulus	**2600**	MPa	ASTM D 790
Flexural Strength	**78.5**	MPa	ASTM D 790
Rockwell Hardness	**R 108**	-	ASTM D 785
Izod Impact notched, 1/8 in	**283**	J/m	ASTM D 256
Izod Impact notched, 1/4 in	**236**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**113**	J/m	ASTM D 256
Temperature	**-30**	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
DTUL @ 66 psi	**99**	°C	ASTM D 648
DTUL @ 264 psi	**91**	°C	ASTM D 648
Vicat Temperature	**99**	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	**600**	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	**30**	kV/mm	ASTM D 149
Volume Resistivity	**1400**	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	**1050**	kg/m³	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