

**STAREX VE-0856**

ABS

Lotte Chemical Corporation

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>3.5</b>	g/10min	ISO 1133
Temperature	<b>200</b>	°C	-
Load	<b>5</b>	kg	-
Molding shrinkage, parallel	<b>0.3</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.3</b>	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>3.5</b>	g/10min	ASTM D 1238
Temperature	<b>200</b>	°C	-
Load	<b>5</b>	kg	-
Mold Shrinkage, MD	<b>0.0045</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.0045</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>2010</b>	MPa	ISO 527
Yield stress	<b>43</b>	MPa	ISO 527
Stress at break	<b>31</b>	MPa	ISO 527
Strain at break	<b>3</b>	%	ISO 527
Flexural modulus, 23°C	<b>2240</b>	MPa	ISO 178
Flexural strength	<b>66</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>24</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>25</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>R 96</b>	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	<b>1200</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>39</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>26</b>	MPa	ASTM D 638
Elongation at Break	<b>18</b>	%	ASTM D 638
Flexural Modulus	<b>2000</b>	MPa	ASTM D 790
Flexural Strength	<b>53</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 96</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>180</b>	J/m	ASTM D 256
Izod Impact notched, 1/4 in	<b>170</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>75</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>87</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>90</b>	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	-
Burning behav. at thickness h	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>2.0</b>	mm	-
Burning behav. 5V at thickness h	<b>5VA</b>	class	IEC 60695-11-20
Thickness tested	<b>3.0</b>	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-0</b>	-	UL 94
Thickness tested	<b>1.5</b>	mm	-
DTUL @ 66 psi	<b>101</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>80</b>	°C	ASTM D 648
<b>Other properties</b>			
Density	<b>1150</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1150</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	85	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	210	°C	-
Mold temperature	40 - 70	°C	-
Zone 1	180 - 190	°C	-
Zone 2	200	°C	-
Zone 3	200 - 210	°C	-
Nozzle temperature	210	°C	-
Screw speed	60 - 90	rpm	-
Injection pressure	98	MPa	-
Back pressure	1 - 2.5	MPa	-

### Characteristics

#### Processing

Injection Molding

#### Regional Availability

North America, Europe, Asia Pacific

#### Delivery form

Pellets, Natural Color