

## Technical Data

### Product Description

Description  
High Impact, Dimensional Stability, Good Weatherability

Application  
Automotive(Roof Rack, Door Handle)

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">LG Chem Ltd.</a> • <a href="#">Lupox®</a>
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• Good Dimensional Stability • High Impact Resistance • Weather Resistant
Uses	• Automotive Applications • Handles • Racks
Automotive Specifications	• HYUNDAI MS215-05 T3
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.21 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	11 g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, Injection Molded)	0.70 to 0.80 %	ASTM D955
Water Absorption (24 hr, 23°C)	0.080 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength <sup>3</sup> Yield, 23°C, 3.20 mm, Injection Molded	59.8 MPa	ASTM D638
Tensile Elongation <sup>3</sup> Break, 23°C, 3.20 mm, Injection Molded	> 100 %	ASTM D638
Flexural Modulus <sup>4</sup> 23°C, 6.40 mm, Injection Molded	2160 MPa	ASTM D790
Flexural Strength <sup>4</sup> 23°C, 6.40 mm, Injection Molded	86.3 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact -30°C, 6.40 mm, Injection Molded	250 J/m	ASTM D256
23°C, 6.40 mm, Injection Molded	80 J/m	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed, 6.40 mm, Injection Molded	115 °C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	105 °C	

Injection	Nominal Value Unit
Drying Temperature	120 °C
Drying Time	4.0 to 5.0 hr
Suggested Max Moisture	0.020 %
Rear Temperature	250 to 260 °C
Middle Temperature	250 to 260 °C
Front Temperature	255 to 265 °C
Nozzle Temperature	260 to 270 °C
Processing (Melt) Temp	260 to 270 °C
Mold Temperature	60 to 80 °C



#### Notes

- <sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- <sup>2</sup> Typical properties: these are not to be construed as specifications.
- <sup>3</sup> 50 mm/min
- <sup>4</sup> 5.0 mm/min

