

# ESPOLEX 461A

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

## Message:

ESPOLEX 461A is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry.

Features include:

low temperature resistance

soft

General Information			
Features	Low temperature resistance ductility		
Uses	Application in Automobile Field Car interior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	412	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D412
Yield	11.1	MPa	ASTM D412
Fracture	11.2	MPa	ASTM D412
Tensile Elongation <sup>2</sup> (Break)	450	%	ASTM D412
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-45°C	No Break		ASTM D256
-40°C	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Burning Rate <sup>3</sup>	34	mm/min	FMVSS 302
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 - 243	°C	
Mold Temperature	21.1 - 48.9	°C	
Injection Rate	Fast		
Back Pressure	0.345 - 0.689	MPa	

#### Injection instructions

Injection Pressure: HighPack/Hold Pressure: 40-70% of Inj PressScrew RPM: SlowPart Draft: 3-6° per sideTool Surface Finish: Light Texture

#### NOTE

- |    |                         |
|----|-------------------------|
| 1. | C mold, 500 mm/min      |
| 2. | Mouth die C, 500 mm/min |
| 3. | Pass                    |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

