

# MAJORIS ET 450

Polypropylene

AD majoris

## Message:

ET 450 is a mineral filled polypropylene compound intended for injection moulding.

The product is available in black (ET 450 BLACK 8229) and natural (ET 450) but other colours can be provided on request.

ET 450 has a very easy flowing and excellent mechanical properties.

## APPLICATIONS

Automotive climate control parts

Heater cases

Air conditioning parts

Air ducts

Dashboard inserts

Air filters

Fuse and connector boxes

Products requiring good heat resistance, high heat distortion temperature, excellent rigidity, high dimensional stability, low shrinkage can suitably be made from ET 450.

General Information			
Filler / Reinforcement	Mineral filler, 45% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	Good liquidity		
	Heat resistance, high		
	Low shrinkage		
Uses	Electrical housing		
	Connector		
	Parts under the hood of a car		
	Automotive Electronics		
	Car interior parts		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage - Flow (23°C)	0.50 - 0.90	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D, Injection Molded)	77		ISO 868
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Stress (Yield, 23°C, Injection Molded)	34.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C, injection molding	5.0	%	ISO 527-2/50
Fracture, 23°C, injection molding	31	%	ISO 527-2/50
Flexural Modulus <sup>1</sup> (23°C, Injection Molded)	4250	MPa	ISO 178
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength (23°C, Injection Molded)	2.5	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Heat Deflection Temperature			
0.45 MPa, not annealed	134	°C	ISO 75-2/B
1.8 MPa, not annealed	84.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ISO 306/A
--	103	°C	ISO 306/B
<b>Flammability</b>	<b>Nominal Value</b>		<b>Test Method</b>
Flame Rating	HB		UL 94
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 - 270	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Rate	Moderate		
<b>Injection instructions</b>			
Hold-on Pressure: 50 - 70% of the injection pressure			
<b>NOTE</b>			
1.	2.0 mm/min		

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



WECHAT