

# apigo® D 40T

Thermoplastic Polyolefin Elastomer

API SpA

## Message:

apigo® D 40T is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by extrusion or injection molding and is available in Europe. apigo® The application areas of D 40T include consumer goods, electrical appliances, home applications, construction applications and the automotive industry.

Features include:

chemical resistance

environmental protection/green

Good processability

Rapid Prototyping Cycle

low temperature resistance

General Information	
Features	Stress whitening Recyclable materials Workability, good Fast molding cycle Low temperature resistance Good chemical resistance alkali resistance acid resistance Definition, high
Uses	Electrical appliances Household goods Architectural application field Application in Automobile Field Sporting goods Toys Footwear
Appearance	Available colors Clear/transparent
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50	g/10 min	ASTM D1238
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Durometer Hardness (Shore D, 3 sec)	40		ASTM D2240
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength			ASTM D638
--	12.0	MPa	ASTM D638
100% strain	8.30	MPa	ASTM D638
300% strain	9.00	MPa	ASTM D638
Tensile Elongation (Break)	520	%	ASTM D638
Flexural Modulus (23°C)	150	MPa	ASTM D790
<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tear Strength <sup>1</sup>	75.0	kN/m	ASTM D624
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact			ASTM D256
-20°C	420	J/m	ASTM D256
23°C	No Break		ASTM D256
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Rear Temperature	150 - 170	°C	
Middle Temperature	160 - 180	°C	
Front Temperature	170 - 190	°C	
Nozzle Temperature	180 - 200	°C	
Mold Temperature	20.0 - 60.0	°C	
Injection Rate	Slow-Moderate		
<b>Injection instructions</b>			
Injection Pressure: High Back Pressure: Medium Locking Pressure: High			
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Cylinder Zone 1 Temp.	150 - 180	°C	
Cylinder Zone 2 Temp.	160 - 190	°C	
Cylinder Zone 3 Temp.	170 - 190	°C	
Cylinder Zone 4 Temp.	180 - 190	°C	
<b>Extrusion instructions</b>			
L/D Ratio: >20:1 Compression Ratio: 1:2.5 to 1:3			
<b>NOTE</b>			
1.	Without Notch		

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

