

## - Thermoplastic Elastomer

Friday, June 30, 2017

### General Information

#### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific		
Uses	• Flexible Grips • Handles	• Plugs • Shock Absorbing Pads	• Toys
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	435	psi	ASTM D412
Tensile Stress (300% Strain)	725	psi	ASTM D412
Tensile Strength (Break)	725	psi	ASTM D412
Tensile Elongation (Break)	380	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	70		ASTM D2240

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	104 to 176	°F
Rear Temperature	284 to 356	°F
Middle Temperature	284 to 356	°F
Front Temperature	284 to 356	°F
Mold Temperature	104 to 140	°F
Injection Pressure	300 to 3000	psi
Injection Rate	Slow-Moderate	

#### Injection Notes

Purging Material: HDPE, PP

Extrusion	Nominal Value	Unit
Drying Temperature	104 to 176	°F
Cylinder Zone 1 Temp.	284 to 356	°F
Cylinder Zone 2 Temp.	284 to 356	°F
Cylinder Zone 3 Temp.	284 to 356	°F
Cylinder Zone 4 Temp.	284 to 356	°F
Cylinder Zone 5 Temp.	284 to 356	°F

#### Extrusion Notes

Compression Ratio: 2.0 to 4.0  
 Purging Material: HDPE, PP  
 LD Ratio: 25:1 or higher

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.



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# Telcar® DE 7052

## - Thermoplastic Elastomer

**Teknor Apex Company**  
**Corporate Headquarters**

*In U.S. for Vinyls, TPEs, Colorants,  
Engineered Thermoplastics (Chem Polymer)*  
505 Central Avenue  
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000  
Fax: 401-725-8095  
Toll Free (U.S. only) 800-556-3864

**Teknor Apex U.K. Ltd.**

Tat Bank Road  
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100  
Fax: (44) 121-544-5530

[etpsales@teknorapex.co.uk](mailto:etpsales@teknorapex.co.uk)

[info@teknorapex.com](mailto:info@teknorapex.com)

上海松翰塑化科技有限公司  
TEKNOR APEX 特诺尔爱佩斯 一级分销商  
[teknorapex.shshsj.com](http://teknorapex.shshsj.com) 联系电话: 021-58958519

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