

# Flexalloy® OR 9800-50

Teknor Apex Company - Polyvinyl Chloride Elastomer

Friday, June 30, 2017

## General Information

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Oil Resistant • Ultra High Molecular Weight		
Uses	• Footwear • Gaskets • Hose	• Power/Other Tools • Seals • Tool/Tote Box	• Tubing • Wire & Cable Applications
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	860	psi	ASTM D638
Tensile Elongation (Break)	330	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Compression Set (158°F, 22 hr)	38	%	ASTM D395
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	49		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	194	°F	ASTM D794
Brittleness Temperature	-59.8	°F	ASTM D746

### Additional Information

Elongation Retention , Oil Immersion, ASTM #3 oil, 125°C, 7 days: 83%  
 Tensile Strength Retention , Oil Immersion, ASTM #3 oil, 125°C, 7 days: 160%  
 Swell, Oil Immersion, ASTM #3 oil, 125°C, 7 days: -2.2%  
 Dynamic Heat Stability, 205°C: >60 min

### Notes

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

#### 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

info@teknorapex.com

#### 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



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