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TEKNOR APEX

Flexalloy® OR 9800-55

Teknor Apex Company - Polyvinyl Chloride Elastomer

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 [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	1030	psi	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Compression Set (158°F, 22 hr)	71	%	ASTM D395
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	54		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: 80%
Tensile Strength Retention , Oil Immersion, ASTM #3 oil, 125°C, 7 days: 166%
Swell, Oil Immersion, ASTM #3 oil, 125°C, 7 days: -4.3%
Dynamic Heat Stability, 205°C: >60 min

Notes

[1] Typical properties: these are not to be construed as specifications.