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TEKNOR APEX

Flexalloy® 9100-75

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	• General Purpose • Good Thermal Stability	• Recyclable Material • Ultra High Molecular Weight	• Weather Resistant
Uses	• Film • Footwear • Gaskets • Hose	• Rope • Seals • Sheet • Tool/Tote Box	• Tubing • Weatherstripping • Wheels
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.025	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (100% Strain)	1200	psi	ASTM D638
Tensile Strength (Break)	2700	psi	ASTM D638
Tensile Elongation (Break)	400	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [2]	210	lbf/in	ASTM D624
Compression Set			ASTM D395
73°F, 22 hr	26	%	
158°F, 22 hr	55	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	75		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	176	°F	ASTM D794
Brittleness Temperature	-54.4	°F	ASTM D746

Additional Information

Brittle Temperature, ASTM D746: <-48°C

Processing Information

Injection	Nominal Value	Unit
Suggested Max Regrind	20	%
Rear Temperature	360 to 390	°F
Middle Temperature	360 to 390	°F
Front Temperature	360 to 390	°F
Mold Temperature	75 to 125	°F
Back Pressure	50.0 to 150	psi
Screw L/D Ratio	20.0:1.0 to 24.0:1.0	
Screw Compression Ratio	2.0:1.0 to 3.0:1.0	