+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

TEKNOR APEX

Flexalloy® 9100-55

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	• General Purpose • Good Thermal Stability	• Recyclable Material • Ultra High Molecular Weight	• Weather Resistant
Uses	• Automotive Applications • 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	1.13		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.025	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (100% Strain)	550	psi	ASTM D638
Tensile Strength (Break)	1550	psi	ASTM D638
Tensile Elongation (Break)	380	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [2]	160	lbf/in	ASTM D624
Compression Set			ASTM D395
73°F, 22 hr	23	%	
158°F, 22 hr	55	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	54		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-69.0	°F	ASTM D746

Additional Information

Brittle Temperature, ASTM D746: <-56°C

Processing Information

Injection	Nominal Value	Unit
Suggested Max Regrind	20	%
Rear Temperature	340 to 370	°F
Middle Temperature	340 to 370	°F
Front Temperature	340 to 370	°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	

Notes

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

[2] Die C