TEKNOR APEX

FLEXALLOY® 9300-70

Teknor Apex Company - Polyvinyl Chloride Elastomer

Saturday, August 24, 2019

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Thermal Stability • Oil Resistant	• Recyclable Material • Ultra High Molecular Weight	• Weather Resistant
Uses	• Coating Applications • Hose	• Seals • Tool/Tote Box	• Tubing
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.025	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (100% Strain)	1100	psi	ASTM D638
Tensile Strength (Break)	2380	psi	ASTM D638
Tensile Elongation (Break)	410	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Compression Set (73°F)	29	%	ASTM D395
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	70		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	221	°F	ASTM D794
Brittleness Temperature	-34.6	°F	ASTM D746

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	

Notes

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

Revision Date: 12/12/2013