

FLEXALLOY® 9100-35

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	• 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
Density / Specific Gravity	1.07		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.025	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (100% Strain)	300	psi	ASTM D638
Tensile Strength (Break)	900	psi	ASTM D638
Tensile Elongation (Break)	380	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	105	lbf/in	ASTM D624
Compression Set			ASTM D395
73°F, 22 hr	23	%	
158°F, 22 hr	61	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	35		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	140	°F	ASTM D794
Brittleness Temperature	-71.0	°F	ASTM D746
Additional Information			
Brittle Temperature, ASTM D746: <-57°C			

Processing Information

Injection	Nominal Value	Unit
Suggested Max Regrind	20	%
Rear Temperature	320 to 350	°F
Middle Temperature	320 to 350	°F
Front Temperature	320 to 350	°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	

+135-3858-6433
+188-1699-6168
+852-695-75415

FLEXALLOY® 9100-35

Teknor Apex Company - Polyvinyl Chloride Elastomer

Notes

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

² Die C

Revision Date: 12/12/2013

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.