

Geon™ 180 Series 180X7

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon® 180X7 is low molecular weight homopolymer resin that provides good chemical foam characteristics with excellent overblow resistance. The modified rheology of Geon® 180X7 provides increased viscosity and yield.

Geon® 180X7 is recommended for applications where high Brookfield Viscosity and yield are required such as highly plasticized low density chemically blown foams, highly plasticized formulations, and weather stripping.

General Information			
Features	Low molecular weight		
	Plasticized		
	Foamable property		
	Viscosity, High		
Uses	Weather-resistant sealing strip		
	Foam		
Forms	Powder 1		
Processing Method	Plastisol		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
K-Value ¹	65.0		Internal method
Intrinsic Viscosity	0.90		ASTM D1243-60-A
Water content-Karl Fisher ²	0.060	%	Internal method
Volume density	400	g/l	
Relative Viscosity ³	2.20		Internal method
Optimal stretch-PP ⁴	18.4	MPa	ASTM D638
Gloss-60 degree fused 5 mins @ 350F ⁵	91	%	Internal method
Transparency-Transmittance-PP ⁶	85	%	Internal method
Brokfield Viscosity			Internal method
Initial Viscosity @ 2 rpm ⁷	19.8	Pa · s	Internal method
Initial Viscosity @ 20 rpm ⁸	10.6	Pa · s	Internal method
One Day Viscosity @ 2 rpm ⁹	23.3	Pa · s	Internal method
One Day Viscosity @ 20 rpm ¹⁰	11.8	Pa · s	Internal method
Cut off the outflow-95 psi ¹¹	132.00	g/10 min	Internal method
North fineness ¹²	4.50	Hegman	Internal method
Residual Vinyl Chloride Monomer ¹³		ppm	Internal method
Methanol extractable ¹⁴	3.5	%	Internal method
polymerization process	Dispersion		
Gel temperature-PP ¹⁵	72	°C	Internal method

Additional Information	Nominal Value	Unit	Test Method
<p>Note: The value set forth represents "typical" values and Mexichem Specialty Resins, therefore, makes no representation that the material in any particular shipment will conform to the listed properties. Packaging: This resin is shipped in multi-wall paper bags, net weight 50 lbs, 2500 lbs per pallet. Information shown on the package includes commercial identification number, lot and weight. Geon® ALTC and ASTM D638 (formulation): 100phr Geon® 180X7, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® 180X7, and 60phr DOP</p>			
NOTE			
1.	Interrelationship		
2.	Karl Fisher-Geon® 683c		
3.	Interrelationship		
4.	With provided formulation		
5.	60°, FF, ALTC-65		
6.	Geon® ALTC 66 (with provided formulation)		
7.	Initial V2, Geon® 1253		
8.	Initial, V20, Geon® 1253		
9.	One day, V2		
10.	One day, V20		
11.	95 psi, Geon® 1010		
12.	Geon® 390		
13.	Geon® STP 1005		
14.	Geon® 894		
15.	Geon® ALTC 29 (with provided formulation)		

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