

Generic PVC, Unspecified

Polyvinyl Chloride

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic PVC, Unspecified
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.15 - 1.50	g/cm ³	ASTM D792
23°C	1.14 - 1.56	g/cm ³	ISO 1183
Apparent Density			
--	0.23 - 0.63	g/cm ³	ASTM D1895
--	0.55 - 0.77	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.2 - 7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C)	0.40 - 4.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020 - 0.16	%	ASTM D570
K-Value (23°C)	56.5 - 80.3		ISO 1628-2
Viscosity Number (Reduced Viscosity) (23°C)	83.1 - 161.4	ml/g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	12 - 108		ASTM D785
Durometer Hardness			
23°C	59 - 97		ASTM D2240
23°C	48 - 97		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	1.79 - 87.5	MPa	ASTM D638
--	2960	MPa	ISO 527-2 ¹
Tensile Strength			
Yield, 23°C	7.96 - 42.8	MPa	ASTM D638
Yield, 23°C	33.0 - 62.0	MPa	ISO 527-2
Fracture, 23°C	5.52 - 32.1	MPa	ASTM D638
Fracture, 23°C	4.00 - 20.8	MPa	ISO 527-2
23°C	4.48 - 21.3	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	290 - 460	%	ASTM D638
Fracture, 23°C	180 - 470	%	ASTM D638
Fracture, 23°C	200 - 410	%	ISO 527-2

Flexural Modulus			
23°C	1890 - 3030	MPa	ASTM D790
23°C	1890 - 2870	MPa	ISO 178
Flexural Strength			
23°C	68.0 - 81.0	MPa	ASTM D790
23°C	68.4 - 92.0	MPa	ISO 178
Yield, 23°C	55.4 - 94.5	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Tensile Strength - MD (Yield)	49.6 - 60.8	MPa	ASTM D882
Tensile Elongation - MD (Break)	100 - 120	%	ASTM D882
Water Vapor Transmission	2.7 - 3.9	g/m ² /24 hr	ASTM E96
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
100% strain, 23°C	2.85 - 17.4	MPa	ASTM D412
100% strain, 23°C	2.09 - 10.1	MPa	ISO 37
Tensile Strength (Yield, 23°C)	7.83 - 23.6	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	220 - 390	%	ASTM D412
Tear Strength			
23°C	23.6 - 106	kN/m	ASTM D624
23°C	26 - 72	kN/m	ISO 34-1
Compression Set	47 - 48	%	ASTM D395
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	11 - 25	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	21 - 1200	J/m	ASTM D256
23°C	2.5 - 18	kJ/m ²	ISO 180
Notched Izod Impact (23°C)	7.16 - 65.8	kJ/m ²	ASTM D256
Unnotched Izod Impact Strength (23°C)	11 - 22	kJ/m ²	ISO 180
Drop Impact Resistance (23°C)	63.1 - 267	J/cm	ASTM D4226
Aging	Nominal Value	Unit	Test Method
Change in Ultimate Elongation in Air			
23°C	-5.5 - 8.4	%	ASTM D573
23°C	-9.9 - 21	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	95.0 - 103	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0 - 73.4	°C	ASTM D648
1.8 MPa, not annealed	79.6 - 95.8	°C	ISO 75-2/A
1.8 MPa, annealed	72.2 - 94.7	°C	ASTM D648
Continuous Use Temperature	59.7 - 105	°C	ASTM D794
Brittleness Temperature	-50.1 - -4.45	°C	ASTM D746
Vicat Softening Temperature			

--	76.7 - 85.0	°C	ASTM D1525
--	65.0 - 104	°C	ISO 306
50°C/h, B (50N)	78.8	°C	ISO 306 ²
Melting Temperature	159 - 185	°C	
CLTE - Flow	6.3E-5 - 7.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			
23°C	1.0 - 1.5E+14	ohms·cm	ASTM D257
23°C	4.0E+12 - 1.8E+15	ohms·cm	IEC 60093
Dielectric Strength (23°C)	13 - 40	kV/mm	ASTM D149
Dielectric Constant			
23°C	2.83 - 3.70		ASTM D150
23°C	2.75 - 3.40		IEC 60250
Dissipation Factor			
23°C	0.012 - 0.025		ASTM D150
23°C	0.012 - 0.019		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Burning Rate	4.3 - 6.4	mm/min	ISO 3795
Oxygen Index			
--	20 - 31	%	ASTM D2863
--	24 - 41	%	ISO 4589-2
Optical	Nominal Value	Unit	Test Method
Transmittance	88.8 - 90.1	%	ASTM D1003
Haze	1.5 - 3.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Rear Temperature	165 - 170	°C	
Front Temperature	170 - 175	°C	
Processing (Melt) Temp	165 - 188	°C	
Injection instructions			
This data represents typical values that have been calculated from all products classified as: Generic PVC, UnspecifiedThis information is provided for comparative purposes only.			
Extrusion	Nominal Value	Unit	
Hopper Temperature	148 - 165	°C	
Cylinder Zone 1 Temp.	143 - 166	°C	
Cylinder Zone 2 Temp.	143 - 176	°C	
Cylinder Zone 3 Temp.	149 - 183	°C	
Cylinder Zone 4 Temp.	140 - 189	°C	
Cylinder Zone 5 Temp.	154 - 183	°C	
Adapter Temperature	154 - 177	°C	
Melt Temperature	163 - 188	°C	
Die Temperature	153 - 191	°C	
Extrusion instructions			

This data represents typical values that have been calculated from all products classified as: Generic PVC, UnspecifiedThis information is provided for comparative purposes only.

NOTE	
1.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
2.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT