

Generic PVC, Flexible

Flexible Polyvinyl Chloride

Generic

Message:

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General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.15 - 1.45	g/cm³	ASTM D792
23°C	1.16 - 1.40	g/cm³	ISO 1183
Molding Shrinkage - Flow (23°C)	0.95 - 2.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	54 - 92		ASTM D2240
23°C	40 - 96		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1.44 - 79.0	MPa	ASTM D638
Tensile Strength			
Yield, 23°C	8.91 - 20.2	MPa	ASTM D638
Yield, 23°C	8.00 - 22.4	MPa	ISO 527-2
Fracture, 23°C	5.74 - 25.7	MPa	ASTM D638
Fracture, 23°C	7.41 - 20.2	MPa	ISO 527-2
23°C	2.20 - 23.6	MPa	ASTM D638
23°C	2.30 - 17.3	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	270 - 490	%	ASTM D638
Fracture, 23°C	200 - 450	%	ASTM D638
Fracture, 23°C	240 - 430	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain, 23°C)	2.00 - 17.3	MPa	ASTM D412
Tensile Strength			ASTM D412
Yield, 23°C	9.18 - 23.5	MPa	ASTM D412
Fracture, 23°C	6.62 - 20.0	MPa	ASTM D412
Tensile Elongation			
Fracture, 23°C	300 - 410	%	ASTM D412
Fracture, 23°C	300 - 400	%	ISO 37
Tear Strength (23°C)	22.9 - 85.8	kN/m	ASTM D624
Compression Set	18 - 60	%	ASTM D395

Clash-Berg Modulus (23°C)	297	MPa	ASTM D1043
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	59.6 - 105	°C	ASTM D794
Brittleness Temperature	-51.4 - -14.2	°C	ASTM D746
Melting Temperature	159 - 179	°C	
RTI Elec	50.0 - 90.0	°C	UL 746
RTI	50.0 - 90.0	°C	UL 746
UL Temperature Rating	60 - 105	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.5 - 7.5E+16	ohms·cm	ASTM D257
Dielectric Constant (23°C)	2.87 - 5.28		ASTM D150
Dissipation Factor (23°C)	0.031 - 0.096		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	22 - 32	%	ASTM D2863, ISO 4589-2
Optical	Nominal Value	Unit	Test Method
Transmittance	79.8 - 85.0	%	ASTM D1003
Haze	3.0 - 5.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	165 - 202	°C	
Mold Temperature	23.9 - 24.0	°C	
Injection instructions			

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	133 - 182	°C
Cylinder Zone 2 Temp.	145 - 160	°C
Cylinder Zone 3 Temp.	149 - 181	°C
Cylinder Zone 4 Temp.	123 - 171	°C
Cylinder Zone 5 Temp.	138 - 340	°C
Adapter Temperature	123 - 177	°C
Melt Temperature	164 - 192	°C
Die Temperature	164 - 177	°C
Extrusion instructions		

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