

Generic PUR, Unspecified

Polyurethane

Generic

Message:

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General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.869 - 1.42	g/cm³	ASTM D792
23°C	0.920 - 1.25	g/cm³	ISO 1183
--	0.160 - 1.39	g/cm³	ASTM D1505
Apparent Density	0.94 - 1.11	g/cm³	ASTM D1895
Molding Shrinkage			
Flow: 23°C	0.010 - 1.3	%	ASTM D955
23°C	0.30 - 1.8	%	ISO 294-4
Water Absorption			ASTM D570
23°C, 24 hr	0.030 - 0.46	%	ASTM D570
Saturated, 23°C	0.37 - 0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	49 - 91		ASTM D2240
23°C	29 - 94		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4.83 - 2190	MPa	ASTM D638
Tensile Strength			
Yield, 23°C	0.0758 - 48.0	MPa	ASTM D638
Yield, 23°C	15.9 - 45.3	MPa	ISO 527-2
Fracture, 23°C	16.8 - 62.1	MPa	ASTM D638
Fracture, 23°C	8.69 - 25.5	MPa	ISO 527-2
23°C	5.49 - 53.8	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	3.3 - 78	%	ASTM D638
Fracture, 23°C	0.40 - 17	%	ASTM D638
Fracture, 23°C	3.0 - 130	%	ISO 527-2
Flexural Modulus			
23°C	37.9 - 2690	MPa	ASTM D790
23°C	107 - 3370	MPa	ISO 178
Flexural Strength			ASTM D790

23°C	2.00 - 81.4	MPa	ASTM D790
Yield, 23°C	12.4 - 108	MPa	ASTM D790
Compressive Modulus	222 - 2480	MPa	ASTM D695
Compressive Strength (23°C)	1.24 - 71.9	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 23°C	0.172 - 5.83	MPa	ASTM D412
200% strain, 23°C	1.38 - 2.12	MPa	ASTM D412
300% strain, 23°C	1.97 - 6.95	MPa	ASTM D412
Tensile Strength			ASTM D412
Yield, 23°C	2.07 - 66.0	MPa	ASTM D412
Fracture, 23°C	1.38 - 6.34	MPa	ASTM D412
Tensile Elongation			ASTM D412
Yield	320 - 800	%	ASTM D412
Fracture, 23°C	2.0 - 1000	%	ASTM D412
Tear Strength (23°C)	2.14 - 83.1	kN/m	ASTM D624
Compression Set	5.0 - 67	%	ASTM D395
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	9.6 - 95	J/m	ASTM D256
Unnotched Izod Impact (23°C)	23 - 1600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	51.9 - 107	°C	ASTM D648
1.8 MPa, not annealed	46.3 - 95.8	°C	ASTM D648
1.8 MPa, not annealed	35.0 - 140	°C	ISO 75-2/A
Continuous Use Temperature	48.9 - 131	°C	ASTM D794
Glass Transition Temperature	-63.0 - 106	°C	ASTM E1356
CLTE - Flow	4.0E-5 - 3.8E-4	cm/cm/°C	ASTM D696
Thermal Conductivity			
23°C	0.037 - 0.35	W/m/K	ASTM C177
23°C	0.20 - 0.21	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.0 - 1.7E+16	ohms	ASTM D257
Volume Resistivity			
23°C	5.2E+6 - 1.5E+15	ohms · cm	ASTM D257
23°C	3.8E+9 - 1.1E+14	ohms · cm	IEC 60093
Dielectric Strength			
23°C	11 - 28	kV/mm	ASTM D149
23°C	19 - 36	kV/mm	IEC 60243-1
Dielectric Constant			
23°C	2.69 - 5.82		ASTM D150
23°C	3.26 - 3.95		ASTM D2520

23°C	3.00 - 6.14		IEC 60250
Dissipation Factor (23°C)	3.0E-4 - 0.045		ASTM D150
Arc Resistance	120 - 122	sec	ASTM D495
Insulation Resistance (23°C)	1.0E+11 - 2.6E+13	ohms	IEC 60167
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	0.033 - 41	min	
Shelf Life (23°C)	24 - 78	wk	
Thermoset Mix Viscosity	25.0 - 15000	cP	ASTM D2393
Demold Time	4.5 - 10000	min	
Post Cure Time	0.42 - 180	hr	
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (22.8°C)	470 - 3300	mPa · s	ASTM D3236
Melt Viscosity	0.0700 - 104	Pa · s	ASTM D3835
Injection	Nominal Value	Unit	
Drying Temperature	65.6 - 107	°C	
Drying Time	2.0 - 5.0	hr	
Processing (Melt) Temp	193 - 232	°C	
Mold Temperature	27.2 - 73.9	°C	
Injection instructions			

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	76.7 - 216	°C
Cylinder Zone 2 Temp.	85.0 - 224	°C
Cylinder Zone 3 Temp.	87.8 - 232	°C
Melt Temperature	79.4 - 238	°C
Die Temperature	79.4 - 238	°C

Extrusion instructions

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