

Generic EVA

Ethylene Vinyl Acetate Copolymer

Generic

Message:

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

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.914 - 0.982	g/cm³	ASTM D792
23°C	0.922 - 0.967	g/cm³	ISO 1183
--	0.920 - 0.958	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	0.15 - 20	g/10 min	ASTM D1238
190°C/2.16 kg	0.30 - 20	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (23°C)	1.00 - 300	hr	ASTM D1693
Vinyl Acetate Content	8.4 - 33.1	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	14 - 98		ASTM D2240
23°C	30 - 96		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	3.00 - 91.3	MPa	ASTM D638
23°C	50.0 - 115	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	2.71 - 18.0	MPa	ASTM D638
Yield, 23°C	2.70 - 7.08	MPa	ISO 527-2
Fracture, 23°C	1.38 - 20.3	MPa	ASTM D638
Fracture, 23°C	2.00 - 26.6	MPa	ISO 527-2
23°C	1.90 - 8.20	MPa	ASTM D638
23°C	3.96 - 10.0	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	90 - 920	%	ASTM D638
Fracture, 23°C	380 - 1000	%	ISO 527-2
Apparent Bending Modulus (23°C)	29.4 - 98.1	MPa	ASTM D747
Flexural Modulus			
23°C	2.00 - 64.4	MPa	ASTM D790
23°C	10.0 - 400	MPa	ISO 178

Flexural Strength (Yield, 23°C)	40.0 - 164	MPa	ASTM D790
Coefficient of Friction	0.49 - 0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30 - 64	µm	
secant modulus			
MD	33.5 - 149	MPa	ASTM D882
TD	36.6 - 125	MPa	ASTM D882
23°C	5.00 - 128	MPa	ISO 527-3
Tensile Strength			
MD: Yield	2.50 - 41.0	MPa	ASTM D882
TD: Yield	3.63 - 30.3	MPa	ASTM D882
Yield, 23°C	4.00 - 8.25	MPa	ISO 527-3
MD: Fracture	14.7 - 33.7	MPa	ASTM D882
TD: Fracture	4.30 - 36.8	MPa	ASTM D882
Fracture, 23°C	22.0 - 39.0	MPa	ISO 527-3
23°C	15.0 - 27.1	MPa	ISO 527-3
Tensile Elongation			
MD: Yield	9.0 - 410	%	ASTM D882
TD: Yield	9.0 - 560	%	ASTM D882
MD: Fracture	170 - 720	%	ASTM D882
TD: Fracture	480 - 800	%	ASTM D882
Fracture, 23°C	300 - 900	%	ISO 527-3
Dart Drop Impact			
23°C	70 - 740	g	ASTM D1709
23°C	420 - 720	g	ISO 7765-1
Elmendorf Tear Strength			
MD	12 - 250	g	ASTM D1922
TD	45 - 260	g	ASTM D1922
--	2.0 - 13	N	ISO 6383-2
Elastomers	Nominal Value	Unit	Test Method
Compression Set	18 - 68	%	ASTM D395
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (23°C)	14.6 - 21.7	J	ASTM D3763
Tensile Impact Strength (23°C)	225	kJ/m ²	ISO 8256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-81.3 - -69.3	°C	ASTM D746
Glass Transition Temperature	-32.0 - 0.175	°C	ASTM E1356
Vicat Softening Temperature			
--	38.6 - 82.8	°C	ASTM D1525
--	38.7 - 85.6	°C	ISO 306
Melting Temperature			
--	58.8 - 105	°C	

--	65.8 - 113	°C	DSC
--	58.3 - 103	°C	ASTM D3418
--	68.5 - 101	°C	ISO 3146

Optical	Nominal Value	Unit	Test Method
Gloss	29 - 92		ASTM D2457
Haze	0.70 - 8.1	%	ASTM D1003

Injection	Nominal Value	Unit
Processing (Melt) Temp	122 - 233	°C
Mold Temperature	20.0 - 180	°C

Injection instructions

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

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	134 - 160	°C
Cylinder Zone 2 Temp.	148 - 188	°C
Cylinder Zone 3 Temp.	156 - 235	°C
Cylinder Zone 4 Temp.	181 - 238	°C
Cylinder Zone 5 Temp.	181 - 238	°C
Adapter Temperature	232 - 236	°C
Melt Temperature	209 - 238	°C
Die Temperature	235 - 238	°C

Extrusion instructions

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

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