Dynaflex™ D3226-1000-03 EU

Thermoplastic Elastomer

Key Characteristics

Product Description

Dynaflex™ D3226-1000-03 EU is an easy processing TPE designed for general purpose applications. It is suitable for injection molding, extrusion, blow molding and thermoforming processes.

- Dry Feel
- Easy Processing
- Good Melt Strength
- Soft Touch

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Melt Strength	• Good Processability	
Uses	• Consumer Applications	• General Purpose	• Toys
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density (73°F (23°C))	0.990 g/cm³	0.990 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	5.0 g/10 min	5.0 g/10 min	
200°C/5.0 kg	48 g/10 min	48 g/10 min	
Molding Shrinkage [2]			Internal Method
Across Flow : 73°F (23°C), 0.0787 in (2.00 mm)	1.5 %	1.5 %	
Flow : 73°F (23°C), 0.0787 in (2.00 mm)	1.0 %	1.0 %	
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress - Flow [3]			DIN 53504-S2
100% Strain, 73°F (23°C), 0.0787 in (2.00 mm)	319 psi	2.20 MPa	
Tensile Stress - Flow [3]			DIN 53504-S2
Break, 73°F (23°C), 0.0787 in (2.00 mm)	550 psi	3.79 MPa	
Tensile Elongation - Flow [3]			DIN 53504-S2
Break, 73°F (23°C), 0.0787 in (2.00 mm)	380 %	380 %	
Tear Strength - Flow [4]			ISO 34-1
73°F (23°C), 0.0787 in (2.00 mm)	132 lbf/in	23.1 kN/m	
Compression Set (73°F (23°C), 22 hr)	16 %	16 %	ISO 815
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness [5]			ISO 48
Shore A, 10 sec, 73°F (23°C)	40	40	

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Fill Analysis	Typical Value (English)	Typical Value (SI)	Test Method
Apparent Viscosity			ASTM D3835
338°F (170°C), 11200 sec^-1	23.9 Pa·s	23.9 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Rear Temperature	310 to 380 °F	154 to 193 °C
Middle Temperature	320 to 390 °F	160 to 199 °C
Front Temperature	330 to 400 °F	166 to 204 °C
Nozzle Temperature	330 to 400 °F	166 to 204 °C
Mold Temperature	70 to 90 °F	21 to 32 °C
Back Pressure	50.0 to 150 psi	0.345 to 1.03 MPa
Screw Speed	25 to 75 rpm	25 to 75 rpm

Injection Notes

Color concentrates ethylene vinyl acetate (EVA) carriers are most suitable for coloring Dynaflex™ D3226-1000-03 EU. Improved color dispersion can be achieved by using higher melt flow concentrates (with a melt flow rate of 25 - 40 g/10 min). Typical loadings for color concentrates are 1% to 5% by weight. A high color match consistency may be obtained by using precolored compounds available from GLS. Concentrates based on PVC should not be used. The final determination of color concentrate suitability should be determined by customer trials.

Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polystyrene (PS) or polypropylene (PP).

Dynaflex™ D3226-1000-03 EU has good melt stability. Maximum residence times may vary, depending on the size of the barrel. Generally, the barrel should be emptied if it is idle for periods of 5 - 8 minutes or longer.

Drying is not Required

Injection Speed: 1 to 5 in/sec
1st Stage - Boost Pressure: 200 to 600 psi
2nd Stage - Hold Pressure: 70% of Boost
Hold Time (Thick Part): 4 to 10 sec
Hold Time (Thin Part): 1 to 3 sec

Notes

[1] Typical values are not to be construed as specifications.

[2] Test Specimen: 100mmx90mmx2mm

[3] 7.9 in/min (200 mm/min)

[4] 20 in/min (500 mm/min)

[5] ±5 sh A

CONTACT INFORMATION

North America
Avon Lake, United States
33587 Walker Road
Avon Lake, OH, United States , 44012
+1 440 930 1000
+1 844 4AVIENT

South America
Sao Paulo, Brazil
Av. Francisco Nakasato, 1700
13295-000 Itupeva
Sao Paulo, Brazil
+55 11 4593 9200

Asia
Shanghai, China
2F, Block C
200 Jinsu Road
Pudong, 201206
Shanghai, China
+86 (0) 21 6028 4888

Europe
Pommerloch, Luxembourg
19 Route de Bastogne
Pommerloch, Luxembourg , L-9638
+352 269 050 35

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