

Dynaflex™ D3226-1000-03

Thermoplastic Elastomer

Key Characteristics

Product Description

Dynaflex™ D3226-1000-03 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 EastAsia Pacific	EuropeLatin America	North America
Features	 Good Melt Strength 	 Good Processability 	
Uses	 Consumer Applications 	 General Purpose 	• Toys
Agency Ratings	 FDA Unspecified Rating 		
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 / Specific Gravity	0.990	0.990	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	26 g/10 min	26 g/10 min	
200°C/5.0 kg	82 g/10 min	82 g/10 min	
Molding Shrinkage - Flow	2.0E-3 to 6.0E-3 in/in	0.20 to 0.60 %	ASTM D955
lastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ^{2, 3} (100% Strain, 73°F (23°C))	430 psi	2.96 MPa	ASTM D412
Tensile Strength ^{2, 3} (Break, 73°F (23°C))	520 psi	3.59 MPa	ASTM D412
Tensile Elongation ^{2, 3} (Break, 73°F (23°C))	380 %	380 %	ASTM D412
Tear Strength	90.0 lbf/in	15.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	15 %	15 %	ASTM D395B
lardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 10 sec)	40	40	ASTM D2240

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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. 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 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 Die C

3 2 hr

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