

Dynaflex[™] G2730

Thermoplastic Elastomer

Key Characteristics

Product Description

- Dynaflex[™] G2730 is a soft, easy processing compound.
 - · Excellent Weatherability
 - · High Resilience
 - · Soft, Rubbery Feel

General	
Material Status	Commercial: Active
Regional Availability	Asia Pacific
Features	Good Weather Resistance Resilient
Uses	 Consumer Applications Overmolding Personal Care Soft Touch Applications
Agency Ratings	• FDA 21 CFR 177.1210 ¹
RoHS Compliance	RoHS Compliant
Appearance	Translucent
Forms	Pellets
Processing Method	Extrusion Injection Molding

Technical Properties²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.890	0.890	ASTM D792
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ^{3, 4} (300% Strain, 73°F (23°C))	175 psi	1.21 MPa	ASTM D412
Tensile Strength ^{3, 4} (Break, 73°F (23°C))	440 psi	3.03 MPa	ASTM D412
Tensile Elongation ^{3, 4} (Break, 73°F (23°C))	650 %	650 %	ASTM D412
Compression Set (73°F (23°C), 22 hr)	11 %	11 %	ISO 815
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 10 sec)	25	25	ASTM D2240
Fill Analysis	Typical Value (English)	Typical Value (SI)	Test Method
Apparent Viscosity			ASTM D3835
392°F (200°C), 1340 sec^-1	30.7 Pa·s	30.7 Pa·s	
392°F (200°C), 11200 sec^-1	5.90 Pa·s	5.90 Pa·s	

Processing Information

	5		
Injection	Typical Value (English)	Typical Value (SI)	
Suggested Max Regrind	20 %	20 %	
Rear Temperature	380 to 400 °F	193 to 204 °C	
Front Temperature	400 to 420 °F	204 to 216 °C	
Nozzle Temperature	420 to 450 °F	216 to 232 °C	
Processing (Melt) Temp	355 to 455 °F	179 to 235 °C	
Mold Temperature	75 to 150 °F	24 to 66 °C	
Back Pressure	100 to 200 psi	0.689 to 1.38 MPa	

Copyright ©, 2020 Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or fand y product. Avient MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

Dynaflex™ G2730

Injection Notes

Color concentrates with polyproplene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (LDPE) carriers are most suitable for coloring Dynaflex[™] G2730. Improved color dispersion can be achieved by using higher melt flow concentrates (with a melt flow from 25 - 40 g/10 min). Typical loadings for color concentrates are 1% to 5% by weight. Liquid color can be used, but mineral oil based carriers may have an effect on the final hardness value. Concentrates based on PVC should not be used. A high color match consistency can be obtained by using precolored compounds available from GLS. 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) polyethylene (PE) or polypropylene (PP).

Regrind levels up to 20% can be used with Dynaflex[™] G2730 with minimal property loss, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should remain as low as possible. The final determination of regrind effectiveness should be determined by the customer.

Dynaflex[™] G2730 has excellent 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 8 - 10 minutes or longer.

Drying is not Required

Injection Speed: 1 to 5 in/sec 1st Stage - Boost Pressure: 500 to 700 psi

Notes

¹ Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.

² Typical values are not to be construed as specifications.

³ Die C

⁴ 2 hr

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

+86 (0) 21 6028 4888

Shanghai, China

Europe

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



avient.com

Copyright ©, 2020 Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your asplication, and you assume all risk and liability arising from your use of the Information and/or use or fany product. Avient MAKES NO WARRANTIES, EXPRESS OR IMPLED, INCLUDING, BUT NOT LIMITED TO, IMPLED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.