

Dynaflex[™] G2755C Thermoplastic Elastomer

Key Characteristics

Product Description

Dynaflex™ G2755C is an easy processing TPE designed for injection molding and extrusion applications that require FDA compliance.

- · Overmold Adhesion to Polypropylene
- · Rubbery Feel
- Soft Touch

(General			
	Material Status	Commercial: Active		
	Regional Availability	Asia Pacific		
	Features	Good ColorabilityGood Stability	Ozone ResistantRecyclable Material	UV Resistant
	Uses	Consumer ApplicationsFlexible GripsGeneral Purpose	OvermoldingPersonal CareSoft Touch Applications	Transparent or Translucent Parts
	Agency Ratings	• EU 10/2011 ¹	• FDA 21 CFR 177.1210 ²	• FDA 21 CFR 177.2600
	RoHS Compliance	 RoHS Compliant 		
	Appearance	 Translucent 		
	Forms	Pellets		
	Processing Method	Extrusion	 Injection Molding 	

Technical Properties 3

Typical Value (English)	Typical Value (SI)	Test Method
0.890	0.890	ASTM D792
Typical Value (English)	Typical Value (SI)	Test Method
400 psi	2.76 MPa	ASTM D412
1100 psi	7.58 MPa	ASTM D412
740 %	740 %	ASTM D412
Typical Value (English)	Typical Value (SI)	Test Method
53	53	ASTM D2240
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D3835
7.60 Pa·s	7.60 Pa·s	
	Typical Value (English) 0.890 Typical Value (English) 400 psi 1100 psi 740 % Typical Value (English) 53 Typical Value (English) 7.60 Pa·s	Typical Value (English)Typical Value (SI)0.8900.890Typical Value (English)Typical Value (SI)400 psi2.76 MPa1100 psi7.58 MPa740 %740 %Typical Value (English)Typical Value (SI)5353Typical Value (English)Typical Value (SI)53537ypical Value (English)Typical Value (SI)7.60 Pa·s7.60 Pa·s

Additional Information

Dynaflex™ G2755C can be recycled as a filler or impact modifier for polyolefins, or can be recycled by grinding and reintroduction to the molding process. Similar to PP or PE recycling process, if separated appropriately, it can be recycled many times.

Municipality waste stream recycle code is "7" which is designated for "Other".

Please contact GLS Thermoplastic Elastomers for a copy of our Recyclability Compliance letter.

Dynaflex[™] G2755C

Technical Data Sheet

Processing Information

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Injection	Typical Value (English)	Typical Value (SI)	
Suggested Max Regrind	20 %	20 %	
Rear Temperature	330 to 350 °F	166 to 177 °C	
Middle Temperature	350 to 370 °F	177 to 188 °C	
Front Temperature	370 to 440 °F	188 to 227 °C	
Nozzle Temperature	370 to 440 °F	188 to 227 °C	
Mold Temperature	60 to 100 °F	16 to 38 °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 with polypropylene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (PE) carriers are most suitable for coloring Dynaflex[™] G2755C. Improved color dispersion can be achieved by using higher melt flow concentrates (with a melt flow of 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 a significant 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[™] G2755C with minimal property loss, provided that the regrind is free of contamination. To minimize losses during molding, the melt tempetature should remain as low as possible. The final determination of regrind effectiveness should be determined by the customer.

Dynaflex[™] G2755C 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: 150 to 550 psi 2nd Stage - Hold Pressure: 50% of Boost Hold Time (Thick Part): 4 to 10 sec Hold Time (Thin Part): 4 to 10 sec

Notes

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

- ² Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.
- ³ Typical values are not to be construed as specifications.
- ⁴ Die C

⁵ 2 hr