

PolyOne Dynaflex™ G2755-1000-00 Thermoplastic Elastomer (TPE)

Category: Polymer, Thermoplastic, Elastomer, TPE

Material Notes:

Dynaflex™ G2755-1000-00 is an easy processing TPE designed for injection molding and extrusion applications that require FDA compliance. - Good Ozone and UV Stability - Overmold Adhesion to Polypropylene - Rubbery Feel - Soft TouchDynaflex™ G2755-1000-00 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. Color concentrates with polypropylene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (PE) carriers are most suitable for coloring Dynaflex™ G2755-1000-00. 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™ G2755-1000-00 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™ G2755-1000-00 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): 1 to 3 secInformation provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Dynaflex-G2755-1000-00-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments	
Specific Gravity	0.878 g/cc	0.878 g/cc	ASTM D792	
	7000 cP	7000 cP		
Viscosity	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	ASTM D3835	
Linear Mold Shrinkage, Flow	0.0090 - 0.016 cm/cm	0.0090 - 0.016 in/in	ASTM D955	
	3.0 g/10 min	3.0 g/10 min		
Melt Flow	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	ASTM D1238	
	42 g/10 min	42 g/10 min		
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	ASTM D1238	

Mechanical Properties	Metric	English	Comments	
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Mechanical Properties	Metric Metric	English	Comments D2240	
Tensile Strength at Break	5.34 MPa	775 psi	Die C2 hr; ASTM D412	
	@Temperature 23.0 °C	@Temperature 73.4 °F		
	1.52 MPa	220 psi		
Tensile Stress	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	Die C2 hr; ASTM D412	
	2.28 MPa	331 psi		
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	Die C2 hr; ASTM D412	
Elementian at Proph	740 %	740 %	Die C2 hr; ASTM D412	
Elongation at Break	@Temperature 23.0 °C	@Temperature 73.4 °F		
Tear Strength	21.0 kN/m 120 pli		ASTM D624	
Compression Set	17 %	17 %		
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	ASTM D395B	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	166 - 177 °C	166 - 177 °C 331 - 351 °F	
Middle Barrel Temperature	177 - 188 °C 351 - 370 °F		
Front Barrel Temperature	188 - 227 °C	370 - 441 °F	
Nozzle Temperature	188 - 227 °C	370 - 441 °F	
Mold Temperature	15.6 - 37.8 °C 60.1 - 100 °F		
Back Pressure	0.345 - 1.03 MPa	.345 - 1.03 MPa 50.0 - 149 psi	
Screw Speed	25 - 75 rpm	25 - 75 rpm 25 - 75 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	EU 10/2011	Please contact GLS Thermoplastic Elastomers for the specific EU compliance letter on this product.
	FDA 21 CFR 177.1210	Please contact GLS Thermoplastic Elastomers for the specific FDA compliance letter on this product.
Appearance	Translucent	
Features	Good UV Resistance	
	Ozone Resistant	



Descriptive Properties	Value lable Material	Comments
Forms	Pellets	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Extrusion	
	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Suggested Max Regrind	20%	
Uses	Consumer Applications	
	Flexible Grips	
	General Purpose	
	Overmolding	
	Personal Care	
	Soft Touch Applications	
	Transparent or Translucent Parts	

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