

PolyOne Dynaflex™ D3204-1000-03 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Dynaflex™ D3204-1000-03 is an easy processing TPE designed for general purpose applications and is suitable for injection molding, extrusion, blow molding, and thermoforming processes. - Dry Feel - Easy Processing - Good Melt Strength - Soft Touch Color concentrates ethylene vinyl acetate (EVA) carriers are most suitable for coloring Dynaflex™ D3204-1000-03. 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™ D3204-1000-03 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: 300 to 700 psi 2nd Stage - Hold Pressure: 70% of Boost Hold Time (Thick Part): 4 to 10 sec Hold Time (Thin Part): 1 to 3 sec Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Dynaflex-D3204-1000-03-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	ASTM D792
Viscosity	23500 cP	23500 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
Melt Flow	23 g/10 min	23 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	10 sec; ASTM D2240
Tensile Strength at Break	7.60 MPa	1100 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	6.83 MPa	991 psi	Die C2 hr; ASTM D412
	@Strain 100 %,	@Strain 100 %,	

Mechanical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
Elongation at Break	420 % @Temperature 23.0 °C	420 % @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tear Strength	45.5 kN/m	260 pli	ASTM D624
Compression Set	22 % @Temperature 23.0 °C, Time 79200 sec	22 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395B

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	116 - 160 °C	241 - 320 °F	
Middle Barrel Temperature	166 - 188 °C	331 - 370 °F	
Front Barrel Temperature	182 - 204 °C	360 - 399 °F	
Nozzle Temperature	182 - 204 °C	360 - 399 °F	
Mold Temperature	21.1 - 32.2 °C	70.0 - 90.0 °F	
Back Pressure	0.000 - 1.03 MPa	0.000 - 149 psi	
Screw Speed	40 - 100 rpm	40 - 100 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	FDA Unspecified Rating	
Appearance	Natural Color	
Features	Good Melt Strength	
	Good Processability	
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	

Descriptive Properties	Europe Value	Comments
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Consumer Applications	
	General Purpose	
	Toys	

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