

Dynalloy™ GP 7820-60N Thermoplastic Elastomer

Key Characteristics

Product Description

Dynalloy™ GP 7820-60N is a general purpose TPE compound designed for various consumer markets, including like kitchenware,toys,personal and infant care related applications. And the compound is formulated based on hydrogenated styrenic block copolymers(SEBS).

General			
Material Status	Commercial: Active		
Regional Availability	Asia Pacific		
Agency Ratings	• EU 10/2011	• FDA 21 CFR 177.1210 ¹	
RoHS Compliance	 RoHS Compliant 		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	 Injection Molding 		

Technical Properties²

Typical Value (English)	Typical Value (SI)	Test Method
0.980	0.980	ASTM D792
Typical Value (English)	Typical Value (SI)	Test Method
888 psi	6.12 MPa	ASTM D412
680 %	680 %	ASTM D412
Typical Value (English)	Typical Value (SI)	Test Method
60	60	ASTM D2240
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D3835
5.49 Pa·s	5.49 Pa·s	
	0.980 Typical Value (English) 888 psi 680 % Typical Value (English) 60 Typical Value (English)	0.980 0.980 Typical Value (English) Typical Value (SI) 888 psi 6.12 MPa 680 % 680 % Typical Value (English) Typical Value (SI) 60 60 Typical Value (English) Typical Value (SI)

Processing Information

Injection	Typical Value (English)	Typical Value (SI)	
Suggested Max Regrind	20 %	20 %	
Rear Temperature	330 to 370 °F	166 to 188 °C	
Middle Temperature	350 to 380 °F	177 to 193 °C	
Front Temperature	370 to 440 °F	188 to 227 °C	
Nozzle Temperature	360 to 420 °F	182 to 216 °C	
Processing (Melt) Temp	380 to 440 °F	193 to 227 °C	
Mold Temperature	60 to 100 °F	16 to 38 °C	

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Injection Notes

Color concentrates with polypropylene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (PE) carriers are most suitable for coloring Dynalloy™ 7820. 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. 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) polyethylene (PE) or polypropylene (PP).

Regrind levels up to 20% can be used with Dynalloy™ 7820 with minimal property losses, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should be as low as possible. The final determination of regrind effectiveness should be determined by the customer.

The Dynalloy™ 7820 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

Notes

- ¹ 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

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