Dynalloy™ OBC8200-BT50

Thermoplastic Elastomer

Key Characteristics

Product Description

Dynalloy™ OBC8200-BT50 is a translucent grade to be used in blow molding applications.

New Product. Commercial specifications have not been established.

- Excellent Colorability
- Rubbery Feel

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Latin America • North America	
Features	• Good Colorability	• Good Surface Finish	
Uses	• Blow Molding Applications	• Soft Touch Applications	• Transparent or Translucent Parts
Agency Ratings	• BfR Food Contact [1]	• FDA 21 CFR 177.1210 [2]	
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	

Technical Properties [3]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.900	0.900	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [4, 5] (Break, 73°F (23°C))	685 psi	4.72 MPa	ASTM D412
Tensile Elongation [4, 5] (Break, 73°F (23°C))	930 %	930 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	45	45	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 1340 sec^-1	148 Pa·s	148 Pa·s	
392°F (200°C), 11200 sec^-1	27.0 Pa·s	27.0 Pa·s	

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	340 to 370 °F	171 to 188 °C
Front Temperature	340 to 390 °F	171 to 199 °C
Nozzle Temperature	330 to 370 °F	166 to 188 °C
Processing (Melt) Temp	340 to 380 °F	171 to 193 °C
Mold Temperature	320 to 370 °F	160 to 188 °C
Screw Speed	50 to 100 rpm	50 to 100 rpm

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Injection Notes

Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polystyrene (PS) or polypropylene (PP).

Regrind levels up to 20% can be used with Dynalloy™ OBC8200-BT50 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.

Dynalloy™ OBC8200-BT50 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 8 - 10 minutes or longer.

Drying is not Required

Notes

[1] Please contact GLS Thermoplastic Elastomers for a copy of the BfR 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

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