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	• Europe • 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, Unspecified Rating [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
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

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

CONTACT INFORMATION

Americas

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

Asia

China - Guangzhou
+86 20 8732 7260

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas
33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia
No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe
6 Giällewee
+352 269 050 35