Westlake LDPE 18BOA Westlake Chemical Corporation - Polyethylene, Low Density

Friday, July 27, 2007

General Information

Product Description

VORIDIAN polyethylene 18BOA is a low density formulation used for injection molding. It is an outstanding material for molding lids and other container closures because it processes easily on automatic molding equipment to produce molded items with excellent gloss, clarity, and warpage resistance. This formula complies with FDA regulations at 21 CFR 177.1520(c)(2.2) for use in articles for packing and holding food during cooking. Users must make their own determination that their use of this product is safe, legal, and technically suitable for their intended applications.

General		
Material Status	Commercial: Active	
Availability	AfricaAsiaAustraliaEuropeLatin America	Middle EastNorth AmericaPacific RimSouth America
Test Standards Available	· ASTM	
Features	Clarity, HighFood Contact Acceptable	Gloss, HighWarp Resistant
Uses	 Automotive Applications Furniture Household Goods Lids Medical Applications 	Packaging, CosmeticPackaging, FoodSporting GoodsToys
Forms	 Pellets 	
Processing Method	Injection Molding	

ASTM and ISO Properties ¹			
Physical	Nominal Value Unit	Test Method	
Density	0.920 g/cm ³	ASTM D4883	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20 g/10 min	ASTM D1238	
Mechanical	Nominal Value Unit	Test Method	
Tensile Strength @ Yield ²	1600 psi	ASTM D638	
Tensile Strength @ Break ²	1160 psi	ASTM D638	
Tensile Elongation @ Brk ²	90 %	ASTM D638	
Flexural Modulus ³	2% Secant: 33100 psi	ASTM D790	
Thermal	Nominal Value Unit	Test Method	
Brittle Temperature	-49.0 °F	ASTM D746	
Vicat Softening Point	194 °F	ASTM D1525	

Notes

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¹ Typical properties: these are not to be construed as specifications.

² Type IV, 20 in/min

^{3 0.50} in/min