

Exelene® LLDPE 50400

Linear Low Density Polyethylene

Montachem International, Inc.

Message:

Exelene® LLDPE 50400 is a Linear Low Density Polyethylene product. It can be processed by extrusion or injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Exelene® LLDPE 50400 include additive/masterbatch, caps/lids/closures, containers and food contact applications.

Characteristics include:

Antioxidant

Butene Comonomer

Food Contact Acceptable

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Butene Comonomer		
	Food Contact Acceptable		
Uses	Caps		
	Color Concentrates		
	Food Containers		
	Lids		
	Plastics Modification		
	Waste Containers		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.926	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 1.90 mm, 100% Igepal CO-630, F50)	5.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec, 23°C)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	11.2	MPa	ASTM D638
Tensile Elongation ² (Break)	90	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm)	267	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (23°C)	189	kJ/m ²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	50.0	°C	ASTM D648
Brittleness Temperature ⁴	< -76.0	°C	ASTM D746A
Vicat Softening Temperature	91.8	°C	ASTM D1525 ⁵
Melting Temperature	123	°C	DSC

NOTE

- | | |
|----|-----------------------------------|
| 1. | Type IV, 50 mm/min |
| 2. | Type IV, 50 mm/min |
| 3. | Type I, 13 mm/min |
| 4. | F50; 25 lbf-in |
| 5. | Rate A (50°C/h), Loading 1 (10 N) |

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