

Exelene® HDPE 5502

High Density Polyethylene

Montachem International, Inc.

Message:

Exelene® HDPE 5502: Antioxidant

Exelene® HDPE 5502AS: Antioxidant, Antistatic

General Information			
Additive	Antioxidant		
	Antistatic		
Features	Antioxidant		
	Antistatic		
	Copolymer		
	Food Contact Acceptable		
	Hexene Comonomer		
Uses	Agricultural Chemicals Bottles		
	Bottles		
	Personal Care		
	Pharmaceutical Packaging		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.955	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.35	g/10 min	
190°C/21.6 kg	30	g/10 min	
Environmental Stress-Cracking Resistance			
60°C, 10% Igepal CO-630, F50	> 500	hr	ASTM D1693B
50°C, 3.10 mm, 100% Igepal CO-630, F50	45.0	hr	ASTM D1693A
50°C, 1.90 mm, 100% Igepal CO-630, F50	35.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec, 23°C)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	27.6	MPa	ASTM D638
Tensile Elongation ² (Break)	600	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1380	MPa	ASTM D790B

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	270	J/m	ASTM D256A
Tensile Impact Strength	242	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
Brittleness Temperature ⁴	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	127	°C	ASTM D1525 ⁵
Melting Temperature	129	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

