

Plastic Additives

2022



Highlight Products

Revonox® 610V

High Efficient Antioxidant for Multiprocessing

- ◆ Long-term heat stability
- ◆ Ideal for clear food packaging
- ◆ Dramatically increase recyclability or regrind Processing while maintaining non-yellowing clarity



Revonox® 501

Provides Superior Melt Flow Index Protection

- ◆ High thermal stability
- ◆ A powerful carbon-centered radical scavenger which inhibits process including oxidation
- ◆ Reduce phenolic and phosphorus stabilizers without decreasing thermooxidative stability



Revonox® 420V

Phenol-Free Antioxidant Derived from Palm Oil

- ◆ Tallow free
- ◆ Resistant to gas-fading
- ◆ Low color contribution



Chiguard® GA403

Broad Spectrum and Highly Effective UV Blocker

- ◆ UV 400 blocking
- ◆ Low color
- ◆ Non-migration



Chiguard® R-455

Copolymerizable UV Absorbing Diol

- ◆ With di-hydroxyl functional group
- ◆ Excellent initial color
- ◆ Migration and extraction resistance
- ◆ Long-term weathering resistance

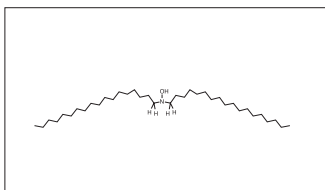
Antioxidants

P=Powder, L=Liquid

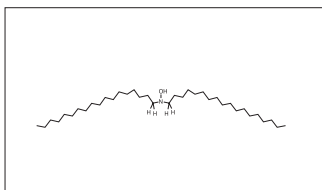
Product	CAS No.	Form	Melting Point	Application
Deox MD-1024	32687-78-8	P	221-232 °C	Metal-Contact Plastics
Revonox® 310	Mixture of antioxidants	P	85 °C min.	Phenolic-Free AO System BOPP Film/PP/TPO
Revonox® 420	143925-92-2	P	90 °C min.	PP/PE/TPO
Revonox® 420V <i>Novel</i>	1374859-51-4	P	90 °C min.	PP/PE/TPO
Revonox® 501 <i>Novel</i>	1261240-30-5	P	183 °C min.	PU/Engineering Plastics
Revonox® 608	154862-43-8	P	225 °C min.	Engineering Plastics
Revonox® 608T	154862-43-8	P	225 °C min.	Engineering Plastics
Revonox® 610V <i>Novel</i>	Proprietary	P	90 °C min.	PP Thermoformed Container PP/TPO
Revonox® U-5024	Mixture of antioxidants	P	76 °C min.	Spandex
Revonox® U-5035	Mixture of antioxidants	L	-	TPU/PU Foam/CPU
Revonox® U-5068 <i>Novel</i>	Proprietary	P	74 °C min.	TPU

Structures

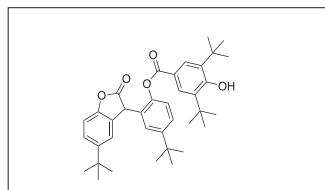
Revonox® 420



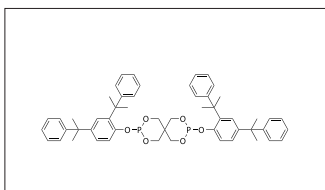
Revonox® 420V



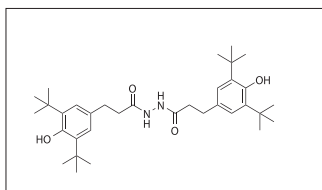
Revonox® 501



Revonox® 608



Deox MD-1024



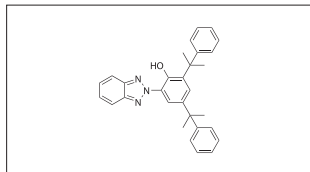
UV Absorbers

P=Powder

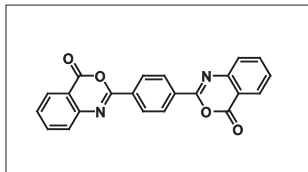
Product	CAS No.	Form	Melting Point	Application
Chiguard® 234	70321-86-7	P	137 °C min.	Nylon/PBT
Chiguard® 380W	18600-59-4	P	300 °C min.	PET
Chiguard® 1033	23949-66-8	P	120 °C min.	Acrylic/TPU
Chiguard® 1064	2725-22-6	P	89 °C min.	PP/PE/TPE
Chiguard® 5228	73936-91-1	P	109-113 °C	PP/TPO
Chiguard® 5431	103597-45-1	P	190 °C min.	PC
Chiguard® 5577	147315-50-2	P	145 °C min.	Polyester/PC
Chiguard® R455 <i>Novel</i>	Proprietary	P	115 °C min.	PU/TPU
Chiguard® GA403 <i>Novel</i>	Proprietary	P	198 °C min.	PE/PET/PA/PC/PMMA

Structures

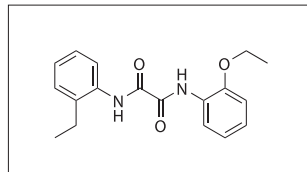
Chiguard® 234



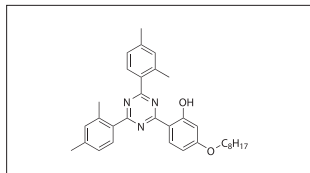
Chiguard® 380W



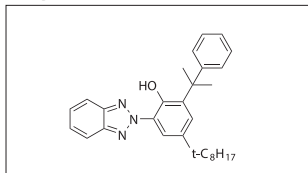
Chiguard® 1033



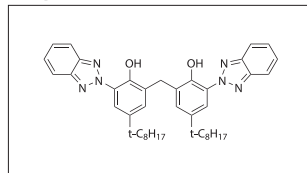
Chiguard® 1064



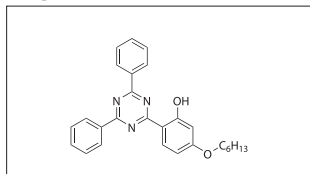
Chiguard® 5228



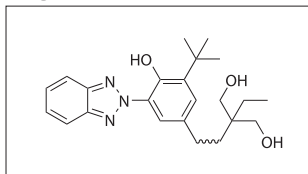
Chiguard® 5431



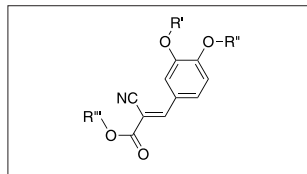
Chiguard® 5577



Chiguard® R-455



Chiguard® GA403



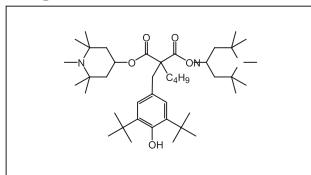
Light Stabilizers

P=Powder, L=Liquid, PT=Pastille

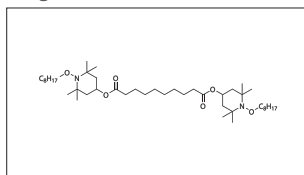
Product	CAS No.	Form	Melting Point	Application
Chiguard® 100	63843-89-0	P	146-150 °C	TPU
Chiguard® 101	129757-67-1	L	-	PE/PVC
Chiguard® 106	82451-48-7	PT	110 °C min.	PE/PP/PET/PBT/PA
Chiguard® 202	192268-64-7	PT	120 °C min.	TPO Thin Film/PP Fiber/ HDPE
Chiguard® 228	106990-43-6	PT	115-150 °C	PE Non-Woven
Chiguard® 1152	191743-75-6	P	85 °C min.	TPU
Chiguard® 4050	124172-53-8	P	155-160 °C	Nylon
Chiguard® 5050	152261-33-1	PT	95 °C min.	Low WCO Polyolefins/ PC/ABS
Chiguard® HP-1011	Mixture of UVA & HALS	PT	80 °C min.	HDPE/LDPE/LLDPE/PP/ TPO
Chiguard® N-442	42774-15-2	P	268-275 °C	Nylon/Polyester

Structures

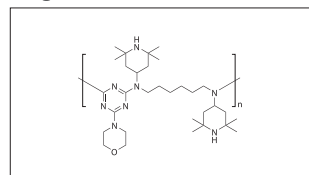
Chiguard® 100



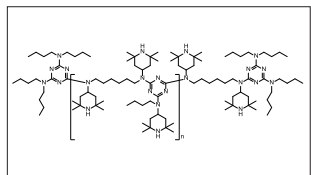
Chiguard® 101



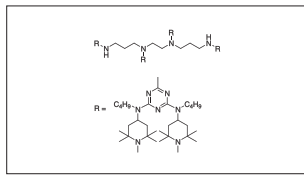
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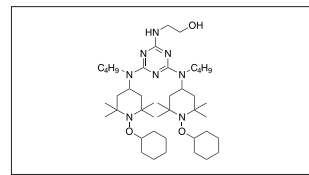
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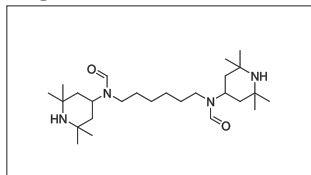
Chiguard® 228



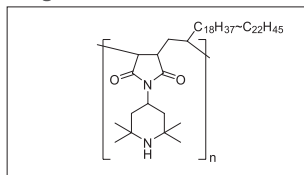
Chiguard® 1152



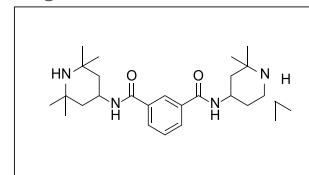
Chiguard® 4050



Chiguard® 5050



Chiguard® N-442



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