

	Ciba[®]TINUVIN[®]622 Oligomeric Hindered Amine Light stabilizer (HALS)						
Characterization	TINUVIN 622 is the light stabilizer of choice for all applications calling for low volatility and minimal migration, because of its oligomeric structure with high molecular weight. Furthermore TINUVIN 622 is effective as antioxidant and contributes significantly to the long- term heat stability of polyolefins and tackifier resins.						
Chemical Name/ Composition	Butanedioic acid, dimethylester, polymer with 4-hydroxy-2,2,6,6- tetramethyl-1-piperidine ethanol						
CAS Number	65447-77-0						
Structure	TINUVIN 622						
Molecular weight	M ₂ =3100-4000		$I_2 = C = n$				
Applications	TINUVIN 622 areas of application include polyolefins (PP PF) olefin						
	copolymers such as EVA as well as blends of polypropylene with elastomers. In addition TINUVIN 622 is highly effective in polyacetals, polyamides and polyurethane applications.						
Features/Benefits	The effectiveness of TINUVIN 622 surpasses significantly that of UV absorbers, particularly in pigmented systems. Combinations of TINUVIN 622 with UV absorbers, e.g. TINUVIN range or other HALS, e.g. CHIMASSORB range in many cases result in synergistic effects. Typical examples are TINUVIN 783 and TINUVIN 111						
Product Forms	Code:	Appearance:					
	TINUVIN 622 FB	colorless to light yellowish granules					
	TINUVIN 622 LD	coarse, white to sligh	tly yellow powder				
Guidelines for use	Thick sections*	UV stabilization of HDPE, LLDPE, LDPE and PP	0.15-0.5%				
	Films	UV stabilization of LDPE and LLDPE	0.1-1.2%				
	Tapes	UV stabilization of HDPE and PP	0.2-0.8%				
	FibersUV stabilization of PP fibers0.1-1.0%* The presence of a UV absorber (e.g. TINUVIN 326/327/328 and CHIMASSORB 81) is recommended in unpigmented or slightly pigmented articles or to improve the light fastness of certain organic pigments.						

Physical Properties	Melting Ra	nae		50 - 7	0 °C		
Thysical Troperties	Flashpoint $>250^{\circ}C$ Clay		C Clevelan	leveland			
	Specific Gr	avity (20°C)		1 22 c	$1/cm^3$		
	$\frac{1.22}{Vapor Prossure} (20^{\circ}C) = 2.5 E$		2.5 F-	6 Pa			
	Rulk density						
	TINI IVIN 622 FB		500 - 700 a/l				
				300 - 500 g/l			
					000 g/1		
	Solubility (20°C)		g/100g Solution				
	Acetone		4.0	4.0			
	Chloroform		> 40	> 40			
	Ethanol		0.08	0.08			
	Ethyl acetate		3.0	3.0			
	n-Hexane		< 0.01	< 0.01			
	Methanol			0.05			
	Methylene chloride > 40						
	Toluene 15						
	Water ^ 1.6 mg/l						
	Volatility (pure substance; TGA-data, heating rate 20°C/min in air)						
	Temperature (°C) % weight los						
	200 0.1		0.1				
	225 0.2						
	250	250 0.4					
	275			1.1			
	300			3.1	3.1		
	325			8.4			
Handling & Safety	In accordance with good industrial practice, handle with care and prevent						
	contamination of the environment. Avoid dust formation and ignition						
	sources. For more detailed information please refer to the material safety						
	data sheet						
Registration	TINUVIN 622 is listed on the following Inventories:						
	Australia		Consola		China	Dueft las sentems	
	Australia:	AICS Delymor mor	Canada:	DSL	China:		
	Europe Korea	FOIYMEL, MOI	Dhilippines		ларан:		
	Korou.	LUL		1000	00/1.	100/1	
	TINUVIN 622 is approved inmany countries for use in food contact						
	applications. For detailed information refer to our Positive Liste or contact						
	your local sales office.						

IMPORTANT:

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