

LAPOX[®] ASH-10 FF

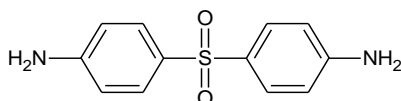
(4,4'-Diamino diphenyl sulfone Free Flow)

Technical Data Sheet | Polymers Business

Description

4,4'-DDS (Free Flow) is a white to off-white, odourless, non-volatile crystalline powder. This is used as curing agent with epoxy resins specially to obtain slow reactivity and extended pot life of mix. Unique combination of mechanical, electrical, and thermal properties are major advantages of this hardener when processed and cured appropriately with epoxy resins.

Chemical structure



Applications

Electrical moulding compounds (EMC)
FRP composites
High performance epoxy coatings
Manufacturing of polyamides and polyimides
Prepregs
Printed circuit boards (PCB)
Structural adhesives

Advantages

Excellent thermal stability
Outstanding mechanical and electrical properties
Slow reactivity and longer shelf life of prepreg

Typical specifications

Properties	Unit	Test method	Values
Description	-	Visual	White to off-white powder
Assay	% w/w	Titration	Min 99
Melting point	°C	Atul	176 - 180
Moisture content (by KF)	% w/w	Atul	Max 0.15
Ash content	% w/w	Atul	Max 0.1
Compressibility index	-	Atul	Max 25
Solubility [Soluble in 30 parts of Ethanol (96%)]	-	Atul	Clear solution
Purity	%	HPLC	Min 99

Packaging

4,4'-DDS (Free Flow) is available in 15 kg and 25 kg fiber drums. Other packing may be considered on request.

Storage and handling

4,4'-DDS (Free Flow) must be stored below 40°C in a sealed container in dry and well-ventilated place. The shelf life of this product is 5 years if stored at recommended temperature in its original container away from sparks, flame, humidity and excessive heat. Avoid storage near ignition sources, hot environment, and in sunlight.

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Safety	Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, the material should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet (SDS) of 4,4'-DDS (Free Flow) for detailed safety instructions.
Spills and disposal	In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.
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Note	Lapox [®] is a registered trademark of Atul Ltd.

Manufacturing site

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