POLYCARBONATE

Diffuser LD5825PC

At Tosaf, we understand the challenges involved in the extrusion of PC sheets, and the importance of creating a stable process. We have therefore developed LD5825PC to deliver the ultimate combination of high thermal stability and high light diffusion properties. Excellent diffusion properties can be achieved using only a small percentage of the masterbatch (2%-4% @ 1.6mm), when blended with the polycarbonate during the extrusion or injection molding process. Consequently, it is the ideal economical solution for large scale projects with high light diffusion requirements, such as transparent roofing in shopping malls and sports stadiums.

uses

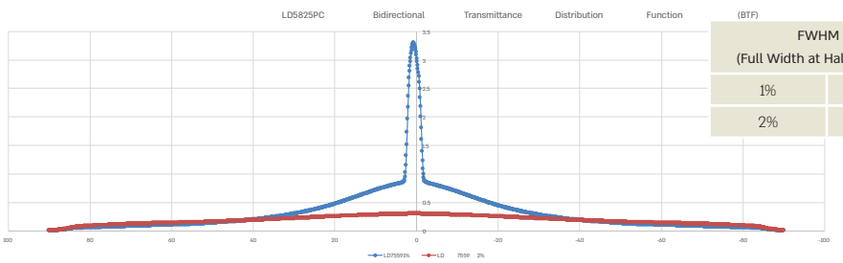
Extrusion: sheets, panels, profiles and films.
Injection molding: only with careful testing to ensure that the injection machine dispersion abilities are sufficient.

Advantages

- High diffusion power
- Highly concentrated MB which enables low usage level and economical solution
- High thermal stability which results in a very stable extrusion process

OPTICAL DATA

*LDR (%)	Light Transmission (%)	Haze (%)	Clarity
0.5	86.3	93	86.4
1	81.3	101	51.3
1.5	73.8	102	7.8
2	68.5	102	3.1
2.5	65.3	102	2.7
Clear PC	89.7	0.82	98.5



FWHM (°) (Full Width at Half Maximum)	
1%	37.2
2%	108.4

There is a growing global trend to integrate transparent plastic sheets instead of glass in building applications such as malls, swimming pools, train stations and DIY.
The most commonly used option is polycarbonate (PC) sheets, which are being produced in solid, multiwall or corrugated form. Each form of the PC sheets has its own production challenges. Polycarbonate is a transparent polymer, therefore its optical properties are of the utmost importance, along with optical manipulations where transparent colors, light diffuser and near-IR heat shielders are used. At Tosaf, we offer a comprehensive range of solutions for PC sheet producers.

APPLICATIONS

Roof construction

Green houses

Range of PC film applications

LED light covers

ADVANTAGES

High diffusion power
Good trade-off between diffusion power and light transmission

Economical solution
Highly concentrated MB which enables low usage level

High thermal stability
For a very stable extrusion process

www.tosaf.com

YOUR NOTES: