

New products

October 11, 2010



AkzoNobel
Tomorrow's Answers Today

Expancel's aim is to improve our microsphere grades. Simultaneously we work hard to produce more environmentally friendly products. In line with this we are proud to introduce our new **Expancel** food grades.

Expancel® Microspheres for food contact

Expancel offers four different grades suitable for food contact applications:

Expansion temperature for these grades ranges from 130 to 200°C (265 to 390°F).

Expancel FG52 DUX 80*
Expancel FG92 DUX 40
Expancel FG92 DUX 120
Expancel FG92 MBX 120

The composition of all our food grades complies with the directive 2002/72/EC and its amendments.

* restricted sales

Examples of applications:

- cap sealant
- synthetic (wine) stoppers
- packaging
- coating



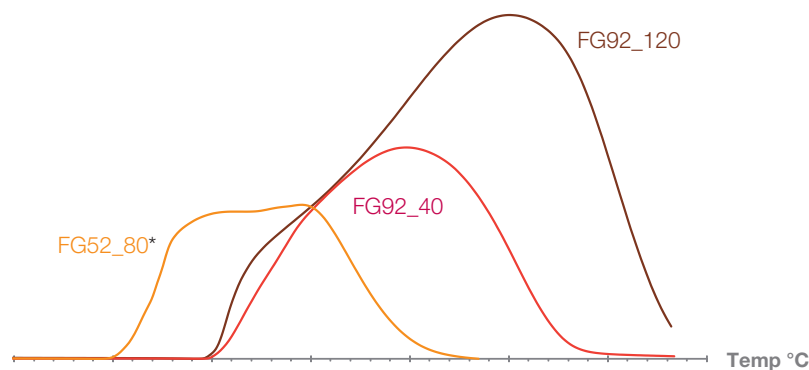
Preliminary specification

Grade	Particle size	Thermomechanical Analysis							
		D(0.5) μm		Tstart,		Tmax,		Density,	
		$^{\circ}\text{C}$	$(^{\circ}\text{F})$	$^{\circ}\text{C}$	$(^{\circ}\text{F})$	kg/m^3	(lbs/gal)		
FG52_80*	16–24	94–105	(201–221)	143–153	(289–307)	≤ 17	(≤ 0.14)		
FG92_40	10–16	123–133	(253–271)	167–177	(333–350)	≤ 17	(≤ 0.14)		
FG92_120	28–38	122–132	(252–270)	194–206	(381–403)	≤ 14	(≤ 0.12)		

FG92 DUX 120 is also available as master-batch, FG92 MBX 120, consisting of 65 % microspheres in a carrier of EVA.

Residual substances	FG52_80	FG92_40/120
Acrylonitrile	≤ 30 [mg/kg]	≤ 30 [mg/kg]
Methacrylonitrile	n.a	≤ 100 [mg/kg]
Methylmethacrylate	≤ 400 [mg/kg]	n.a
Sodium 2-cyanoethanesulfonate	≤ 200 [mg/kg]	≤ 200 [mg/kg]
Sulfite	≤ 1000 [mg/kg]	≤ 2000 [mg/kg]

Properties



Expansion in Thermomechanical Analysis (TMA)

* restricted sales

To find out more about our microspheres contact us at:

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Comments

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