

ISOBOND SR 1252 / SD 205x

Low Density Syntactic Foam

- Lightened two component epoxy system
- Ambient temperature curing, good mechanical behaviour after a 40 °C post cure.
- May be applied with high thickness and on vertical parts.
- Can be applied with a spatula
- Does not flow on vertical parts.

Typical Use:

- Densification of honeycombs, foams and insert areas
- Fillet-joint for assembly of two parts of a structure / joint between hull and bulkhead
- Bonding onto epoxy or old polyester laminates. Sanding down to the fiber is highly recommended.
- Low density fillet joint
- For stronger mechanical properties, refer to **ISOBOND SR 1170 White / SD 205x Black**, with a higher density

System Speciality:

Obvious change of colour when hardener is mixed with resin:
Yellow resin and dark hardener will reach a dark purple mix.

Isobond SR 1252 Epoxy Resin

		SR 1252
Aspect		Viscous paste
Colour		Yellow
Viscosity (Pa.s)	20 °C	180 ± 40
Rheometer CP 50 mm	25 °C	100 ± 25
Shear rate 10 s ⁻¹	30 °C	60 ± 15
Densité	20 °C	0.6 ± 0.1
Picnometer		
NF EN ISO 2811-1		

SD 205X Black Hardeners

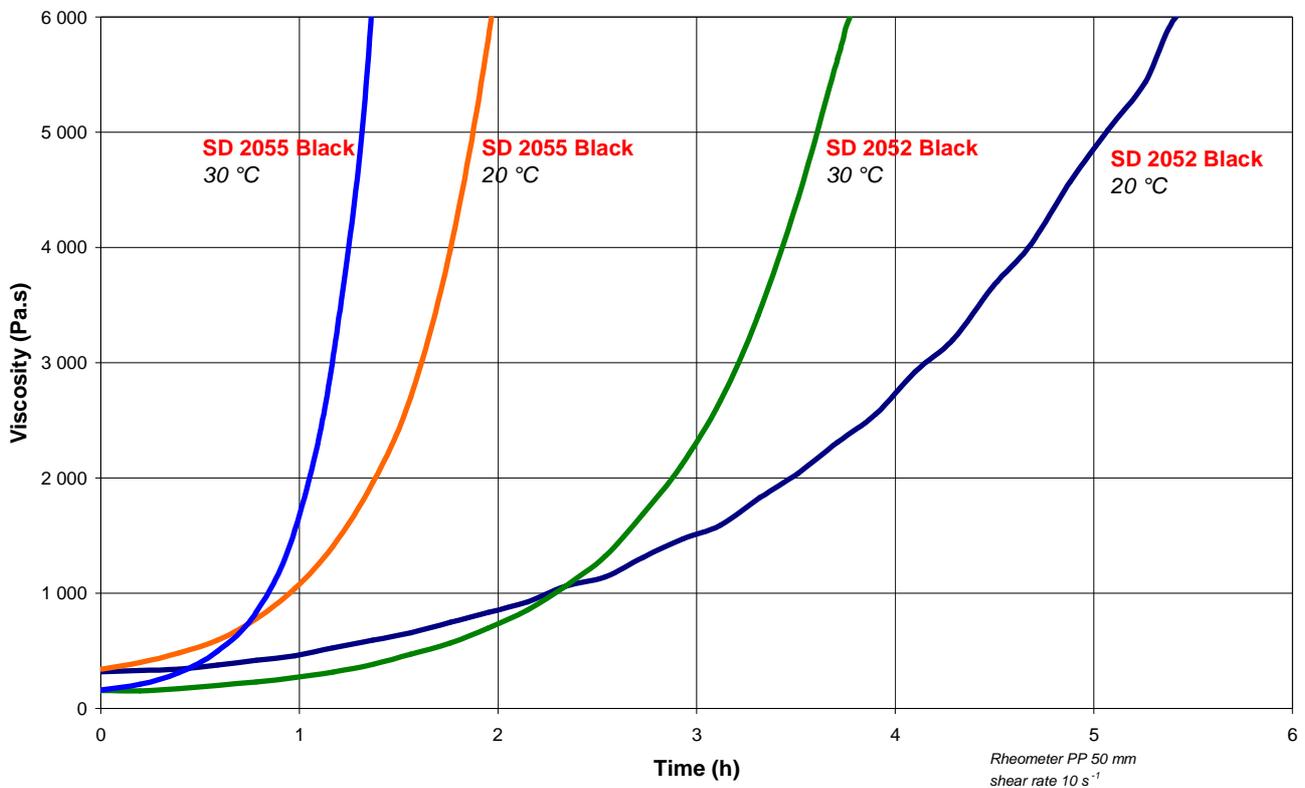
		SD 2055 Black	SD 2052 Black
Typical reactivity		Fast	Slow
Aspect / Couleur		Black gel	Black gel
Viscosity (Pa.s)	20 °C	75 ± 15	60 ± 12
Rheometer CP 50 mm	25 °C	60 ± 12	45 ± 9
Shear rate 10 s ⁻¹	30 °C	45 ± 9	30 ± 6
Density	20 °C	1.08 ± 0.05	1.04 ± 0.05
Picnometer			
NF EN ISO 2811-1			

Isobond SR 1252 / SD 205X Black Mixes

		SR 1252 / SD 2055 Black	SR 1252 / SD 2052 Black
Weight ratio		100 / 40 g	100 / 40 g
Colour		Dark purple	Dark purple
Viscosity (Pa.s)	20 °C	350 ± 70	320 ± 60
Rheometer CP 50 mm	30 °C	160 ± 30	140 ± 25
Shear rate 10 s ⁻¹			
Glass transition DSC			
Tg1	4h at 60 °C	81 °C	80 °C
Tg1 max		83 °C	81 °C

Glass transition DSC: ISO 11357-2: 1999 -5°C to 180°C under nitrogen gas
Tg1 or Onset: 1st point at 20 °C/mn
Tg1 maximum or Onset: second passage

Reactivity – Viscosity Evolution on a 1 mm film



The information given by writing or verbally, in the context of our technical assistance and our trials, do not engage our responsibility. We advise the users of SICOMIN products, to check by some practical trials they are suitable for the envisaged processes and applications. The customer's storage, the use, the implementation and the transformation of the supplied products, are not under our control and your responsibility only will respond for it.

If our responsibility should nevertheless be involved, it would be, for all the damages, limited to the value of the goods supplied by us and implement by the customer. We guaranty the non-reproachable quality of our products, in the general context of sales and delivery.