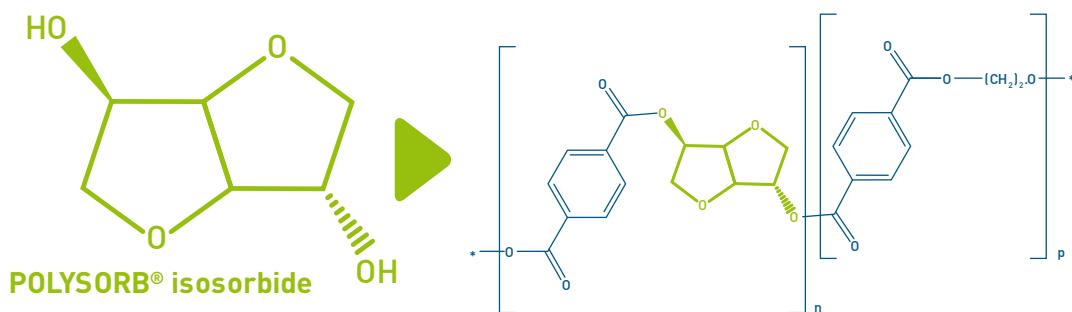


Go beyond PET



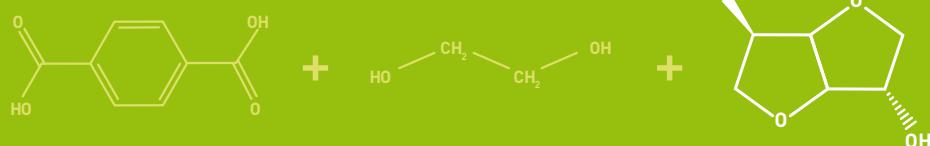
**POLYSORB®
Isosorbide**

KEY BENEFITS

- ▶ Heat resistance
- ▶ Increased glass temperature
- ▶ Good chemical and mechanical resistance
- ▶ Optical properties



POLYSORB® Isosorbide



3 STEPS REACTION

► Oligomerization step:

Formation of dihydroxy Oligomers of PET

► Transesterification step:

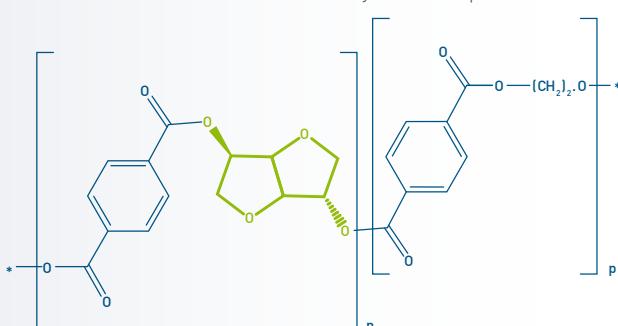
Increase of molecular weight

Performed at molten state

► Solid State Polymerization:

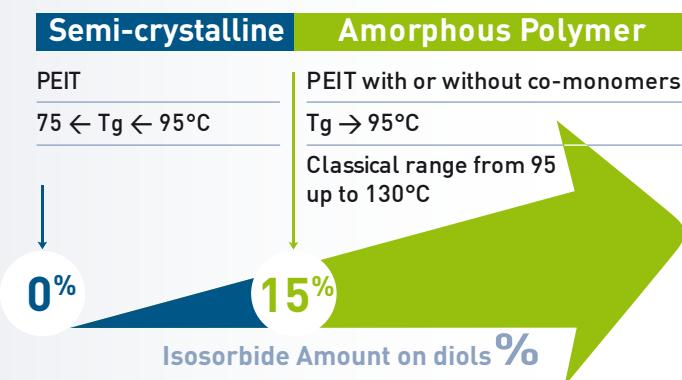
Increase of molecular weight

Performed at solid state for crystallized products



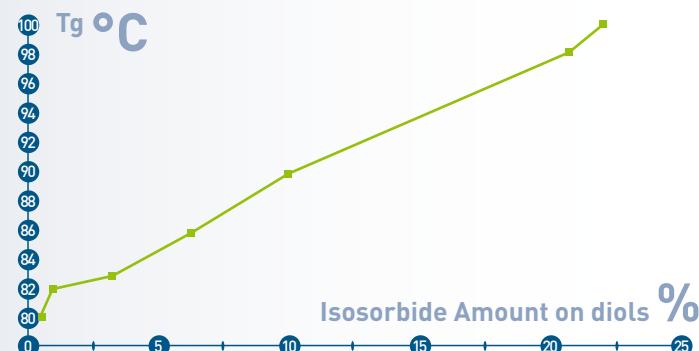
Poly(ethylene-co-isosorbide) terephthalate

TUNED PROPERTIES WITH ISOSORBIDE



ISOSORBIDE IMPROVES

► Heat stability (*Tg*)

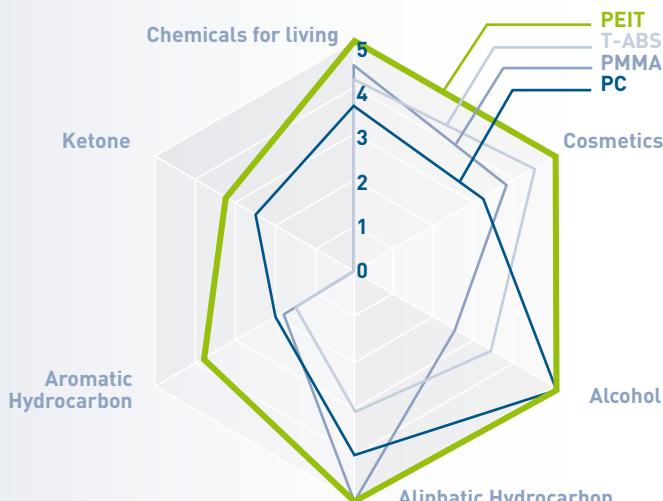


► Optical properties

	PET	PETg	PEIT
TOTAL TRANSMITTANCE	91%	91%	88-90%
HAZE 3,2mm	5%	1%	< 1%



► Chemical Resistance⁽¹⁾



⁽¹⁾ SK Chemicals Data



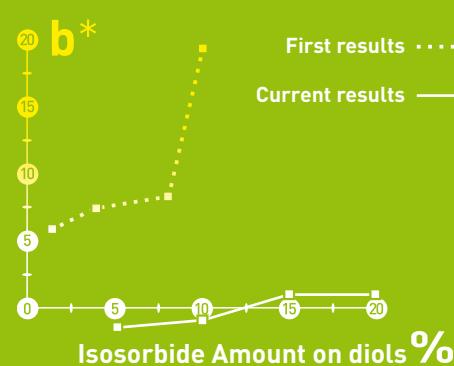
TIPS TO REDUCE COLORATION

High purity POLYSORB® Isosorbide from Roquette

Avoid Presence of Oxygen

Polymerization conditions (time, temperature, catalyst)

Use appropriate Additives



Our experts can help you to gain value in Polyesters with isosorbide

TO ORDER NOW

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