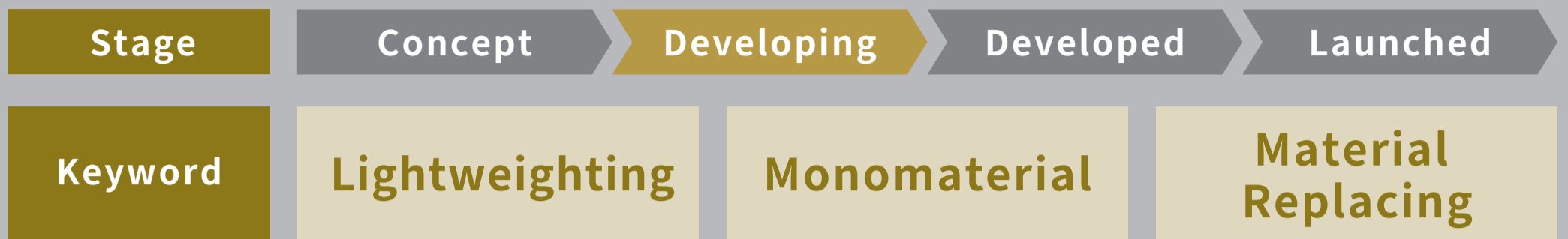


Polypropylene for Transparent / Cold-Resistant Containers



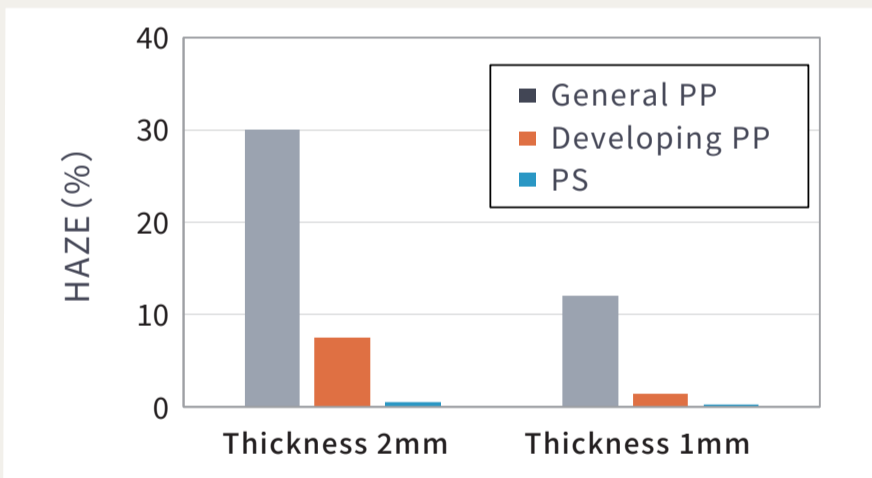
Use Food / Cosmetic Containers

Background

- We have developed high transparent polypropylenes with suitable properties for transparent and transparent cold-resistant packages.
- Weight reduction and/or single-material design are expected by replacing amorphous resins such as PS and PET with these PPs.

Polypropylene for Transparent Container

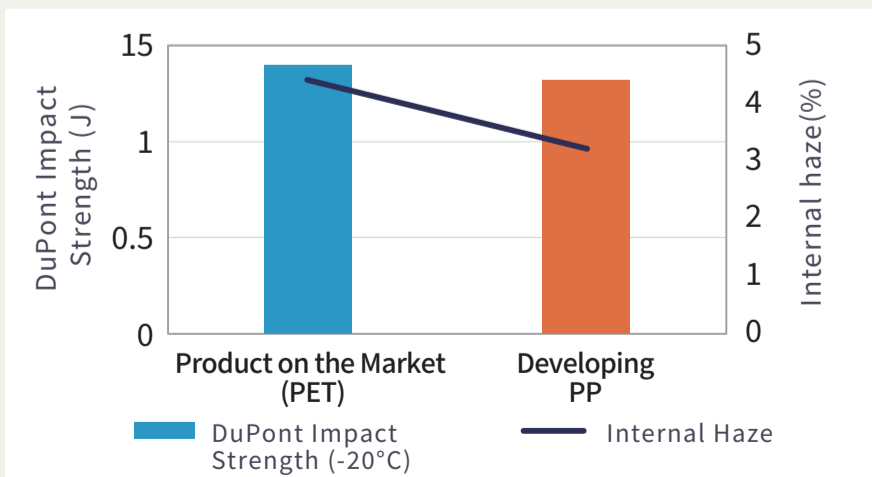
The developing PP has excellent transparency and maintain mechanical properties equivalent to those of general PP.



		General PP	Developing PP	PS
MFR	g/10min	30	30	7
Flexural Modulus	MPa	1,350	1,450	3,150
Charpy Impact Strength	kJ/m ²	4.5	4.0	1.5
HAZE 1mm	%	15	1.5	< 0.5

Polypropylene for Transparent Cold-resistant Container

Impact strength and transparency of developing PP are equivalent to those of PET product on the market.



		Product on the Market (PET)	Developing PP
DuPont Impact Strength (-20°C)	J	1.4	1.3
Internal Haze (0.23mm)	%	4.4	3.2