



TRAYS & SMALL BOXES

TRAYS AND SMALL BOXES - KEY TECHNICAL REQUIREMENTS



End product properties

- Good surface aspect
- Softness for the lids
- Printability (NO IML process)
- Transparency
- "Odourless" packaging

Main Technical Requirements

- Excellent processability!
- High stiffness (stack., down gauging)
- Good impact resistance
- Anti static properties
- Transparent or coloured
- Microwave re-heating
- Limited overall migration of additives
- Can be frozen (-20°C)



TRAYS AND SMALL BOXES – KEY TECHNICAL REQUIREMENTS

- 1° Due to the transformation technology, resin fluidity range is well limited.
 - * For polypropylene resins MFI range from 1.3 to 6 gr/10 min.
 - * For polystyrene resins MFI range from 2.4 to 15 g/10min.
- 2° In PS, customers use a blend HIPS / GPPS
- 3° In ETF for food packaging, a large part of our resins are used in multi layers structure.

POLYPROPYLENE RESINS

Polypropylene	Melt flow index	Specific features	
Homopolymer			
PPH 3060	1.9	Non nucleated	
PPH 4060	3	Non nucleated	
PPH 4022	3	Clarified	
PPH 5060	6	Non nucleated	
Random Copolymer			
PPR 3260	1.8	Non nucleated	
PPR 3221	1.8	Clarified	
Impact Copolymer			
PPC 3660	1.3	Non nucleated	
PPC 3645	1.3	Nucleated	
PPC 4660	3.5	Non nucleated	
PPC 4640	3.5	Nucleated	
PPC 5660	7	Non nucleated	

POLYSTYRENE RESINS: IMPACT GRADES (IN ETF)

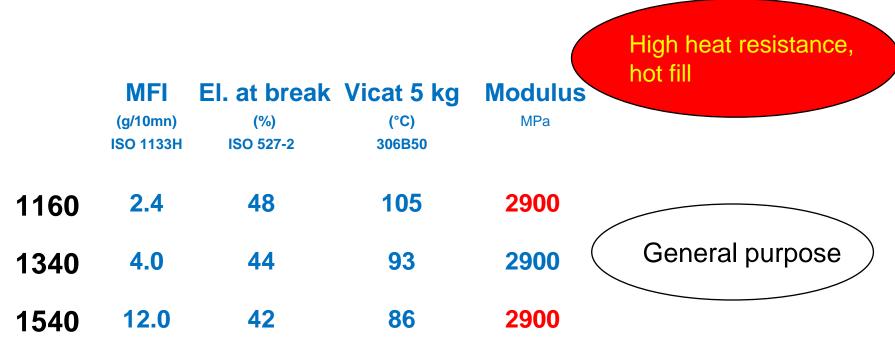
	MFI (g/10mn) ISO 1133H	(%) ISO 527-2	Vicat 5 kg (°C) 306B50	Modulus MPa	
7240	4,5	60	87	1850	
8260	2.8	60	90	1600	
3450	7	55	95	2250	
3630	15	25	89	2300	



Heat resistance articles Coffee containers



POLYSTYRENE RESINS: CRYSTAL GRADES (IN ETF)





Balance between

- product performance
- processability

