



Hydrocerol® ITP 820 (Foaming & nucleating agent)

General	Chemical substances that decompose or react by the influence of heat are called „chemical foaming agents“. In direct gas foaming processes the „chemical foaming agents“ may also be used as „nucleating agents“ to produce uniform and fine cell structures.
Description	<ul style="list-style-type: none"> - Hydrocerol® ITP 820 is an endothermic chemical foaming agent masterbatch. - effective components: 5%. - non toxic decomposition products - wide operational range - lacquerable system
Suitable for	Especially Polyolefins (PE, PP) and Polyamide 6 (PA6). Other thermoplastics on request.
Physical form	White pellets.
Packaging	20 kg bags
Remarks	<ul style="list-style-type: none"> - Shutoff nozzles are recommended - Dosage by hand or dispensing unit. - For mold plates or inserts, steel quality 2083 ISO B (13% Cr). - The product should be stored in a cool and dry place, away from direct sunlight.

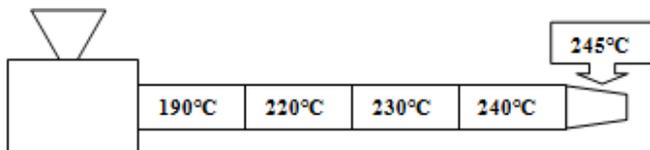
Purpose „optimisation of process“	Purpose „thermoplastic foam molding (TSG)“
<ul style="list-style-type: none"> - avoiding of sink marks, warpage, shrinkholes - shorter cycle times - relief of internal stresses - advantages for parts with long flow distance/better mold filling - specific surface structure - optimisation of clamping force - 2K-technology 	<ul style="list-style-type: none"> - weight reduction - material saving - Increase of thermal and acoustic insulating effect - Better machinability (e.g. sawing, cutting, drilling) - Enhancement of wall stiffness (sandwich effect) at same use of material
Recommended dosage to avoid sink marks: <u>0,5 - 3,0 %</u>	Recommended dosage to reduce weight: <u>1,5 - 5,0 %</u>

Technical parameters

Start of decomposition: 200°C

To avoid premature gassing in the feeding zone, the temperature here should be as low as possible within the processing range of the polymer (e. g. 200 - 220°C). To achieve optimum gas yield, a processing temperature of at least 230°C is suggested.

Temperature profile



Note

Depending on the raw material the temperature profile can deviate from the above shown profile.

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any guarantee of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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