



APIZERO - APIFIVE

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DEFINITION



Brand name: APIZERO
APIFIVE

apizero[®]

apifive[®]

TPE-EVA

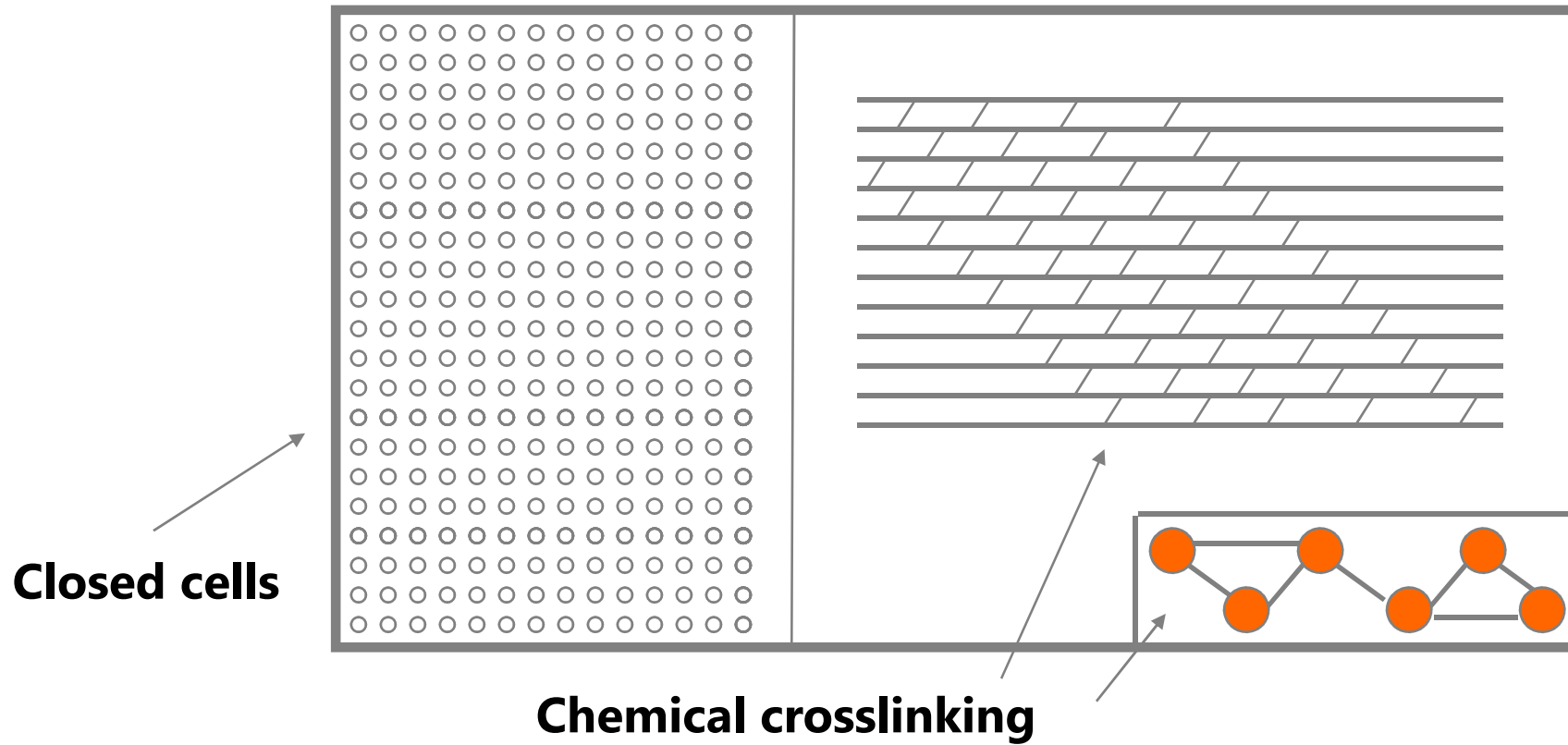
Compounds based on EVA (ethyl-vinyl acetate), expandable and crosslinkable

Apizero are cross-linkable and expandable products based on polyolefine and have been created to meet market needs for the manufacture of light objects which can successfully compete with conventional products such as PVC, thermoplastic rubber and two-component polyurethane

Apifive are cross-linkable and expandable EVA modified with thermoplastic elastomers and rubbers to improve softness, soft touch and matt finish (imitation of vulcanized rubber) with excellent aesthetics.

APIZERO

Compact skin

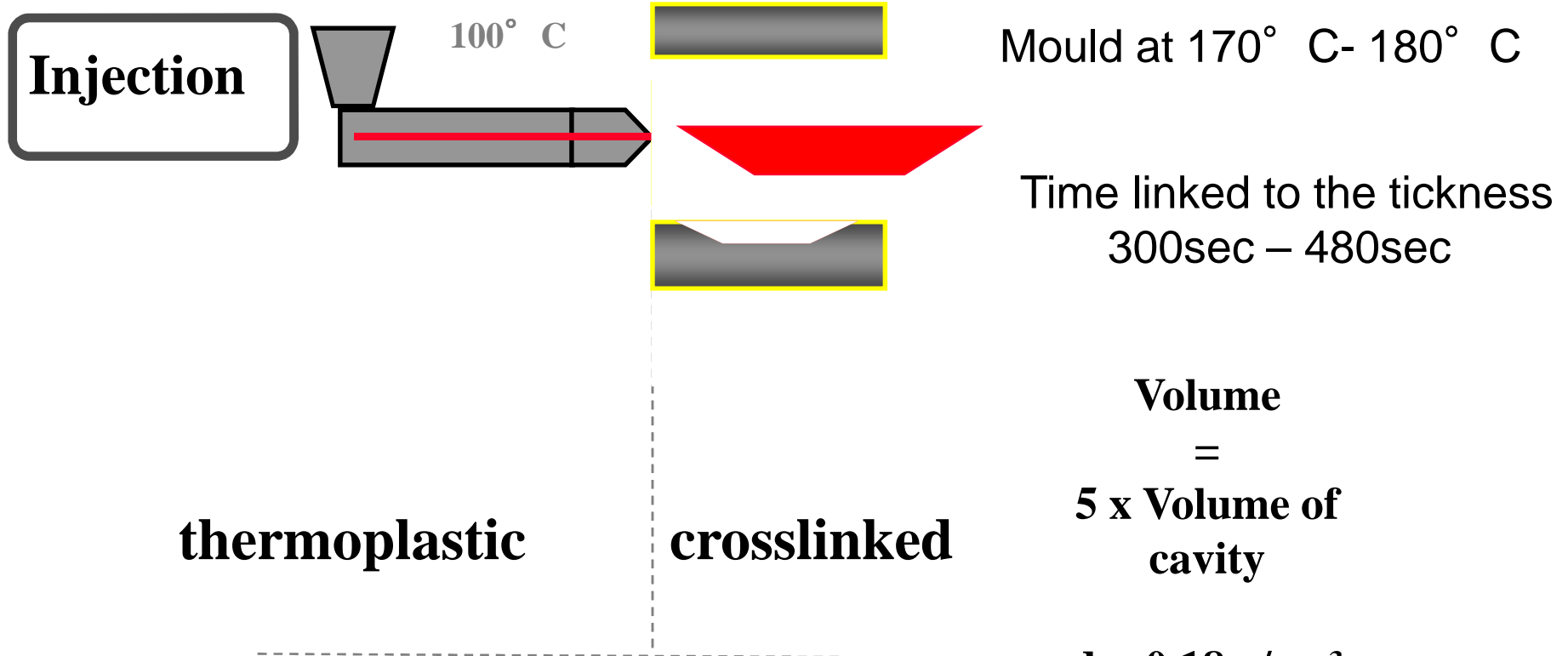


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APIZERO

Process



$$d > 0,18 \text{ g/cm}^3$$

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PROPERTIES



Series APIZERO			AZ HLC200	AZ ML 330	AZ DP1317/200	AZ FC 200
Application			Sandals, slippers, wheels, tech.articles.	Sandals, slippers, soles.	Technical articles, midsoles.	Toys, tech.articles
Main features			Semi gloss, flexible	Semi gloss, flexible	Opaque / soft	According EN 71
Linear expansion			1,6	1,4	1,6	1,6
Properties	Method ASTM	Unit				
Density	D 792	g/cm ³	0,21	0,30	0,20	0,21
Hardness 15"	D 2240	Shore A	42	58	26	45
Hardness 3"	D 2240	Asker C	61	76	45	64
Tear Strength w.n.	D 624	KN/m	9	14	8	10
Tensile Strength	D 638	MPa	2,1	2,4	1,9	2,0
Elongation at break	D 638	%	205	380	280	230
Abrasion resistance	*	mm ³	550	410	n.a.	n.a.
Abrasion resistance	**	mm ³	190	120	n.a.	n.a.
Compression set 24h-23°C	D 395	%	18	21	21	23
Compression set 6h-50°C	D 395	%	64	65	65	66
Heat stability 24h - 70°C	API	Shrinkage %	2,4	2,6	10	2,3
Heat stability 40' - 70°C	API	Shrinkage %	0,6	0,8	5	0,7

* DIN 53515 10N

** DIN 53515 5N

PROPERTIES



Series APIFIVE			AF 1505-350	AF 3010-350	AF DP1358/3/430
Application			Soles, sandals.	Soles, sandals.	Soles low abrasion.
Main features			Opaque / soft	Very flexible / opaque	Very flexible semi-expanded
Linear expansion			1,4	1,4	1,2
Properties	Method ASTM	Unit			
Density	D 792	g/cm ³	0,34	0,33	0,49
Hardness 15"	D 2240	Shore A	54	50	43
Hardness 3"		Asker C	74	72	62
Tear Strength w.n.	D 624	KN/m	17	15	23
Tensile Strength	D 638	MPa	3,3	3,0	4,0
Elongation at break	D 638	%	350	380	360
Abrasion resistance	*	mm ³	240	350	185
Abrasion resistance	**	mm ³	110	150	n.a.
Compression set 24h-23°C	D 395	%	17	15	15
Compression set 6h-50°C	D 395	%	62	61	60
Heat stability 24h - 70°C	API	Shrinkage %	1,6	2	6
Heat stability 40' - 70°C	API	Shrinkage %	0,3	0,6	2,5

* DIN 53515 10N

** DIN 53515 5N



A.P.I. SpA Via Dante Alighieri, 27

36065 Mussolente (Vicenza) Italy

Tel. +39 0424 579 711 Fax +39 0424 579 800

Email api@apiplastic.com

www.apiplastic.com