



Redesigning plastics. For good.

Engineered thermoplastic
elastomer compounds



THE RIGHT TERMOPLASTIC ELASTOMER PERFORMANCE FOR THE RIGHT USE

For some time now, Benvic has led the field in PVC compounds – and has developed an extensive portfolio in soft materials for various applications.

This know-how is now being used to support a range of further alternative soft materials – satisfying new market demands and additional material functions.

Customer needs for soft touch, dampening, vibration filtering, sealing, abrasion resistance and shock absorbing have now helped Benvic create a new product family.

By successfully integrating a complete family of SBS and SEBS-based Thermoplastics Elastomers (TPEs) – creating our DotFlex S/SE range - Benvic now gives the marketplace an effective one-stop-shop for soft polymers.

What makes this Benvic one-stop-shop so different? One word – customers.

Benvic's expanded range of soft polymers now puts the customer in the innovation driving seat.

We can now serve product development with an unparalleled degree of specificity and with high levels of service and customization.

We can design and create specific soft compounds in line with the ambitions of our customers, while ensuring optimum processability and cost/performance ratios.

Benvic's history and DNA in expert engineering and compound formulation also mean peace of mind - superior material performance is guaranteed and included.

Benvic's success in developing and integrating new compounds for different segments also means that we can quickly develop various custom-made TPE compounds at scale and at volume.

Benvic's DotFlex TPE family leads the way. Let us help you create a complete solution system for all your soft polymer needs.



A scalable formulation system



Density modulation



Color matching



Hardness modulation



Improved thermal resistance



Polarity modulation for substrate adhesion



Melt flow index modulation

DOTFLEX —TRANSLUCENT UNFILLED SEBS

<i>Catalogue P/N</i>	<i>Density [g/cm³]</i>	<i>Modulus [Mpa]</i>	<i>Tensile Strength [Mpa]</i>	<i>Elongation at break [%]</i>	<i>Compression set [%]</i>	<i>Tear strength [kN/m]</i>	<i>Hardness [Shore A]</i>
TPE 22 ONZ 00 03	0.88	0.2	3.8	950	38	12	03
TPE 22 ONZ 00 12	0.88	0.3	3.7	900	24	16	12
TPE 22 ONZ 00 19	0.88	0.3	4.2	900	30	17	19
TPE 22 ONZ 00 22	0.89	0.4	4.6	880	34	14	22
TPE 22 ONZ 00 31	0.90	0.6	7.1	860	31	20	31
TPE 22 ONZ 00 34	0.89	0.7	8.0	780	-	26	34
TPE 22 ONZ 00 45	0.89	1.1	4.5	600	-	20	45
TPE 22 ONZ 10 45	0.89	1.0	8.5	780		22	45
TPE 22 ONZ 00 50	0.89	1.1	8.0	750	42	26	50
TPE 22 ONZ 00 67	0.89	1.8	12.0	790	39	33	67
TPE 22 ONZ 00 71	0.91	2.0	12.3	740	44	38	71
TPE 22 ONZ 00 82	0.90	2.8	17.8	750	60	48	82
TPE 22 ONZ 00 91	0.92	6.1	11.0	560	-	60	91

● A versatile product line with scalable formulation to modulate properties for unique material optimization .

● Deep technical know-how - that supports our customers with any development .

● Easy processing materials that optimize processing costs and reduce waste.



DOTFLEX — EXTRUSION SEBS

Catalogue P/N	Density [g/cm ³]	Modulus [Mpa]	Tensile Strength [Mpa]	Elongation at break [%]	Compression set [%]	Tear strength [kN/m]	Hardness [Shore A]
TPE 370NZ0025	1.18	0.4	5.1	850	48	17	25
TPE 370NZ0030	1.19	0.5	6.2	830	46	19	30
TPE 370NZ0035	1.19	0.7	6.0	760	40	22	35
TPE 370NZ0045	1.18	0.9	6.2	780	35	25	45
TPE 370NZ0051	1.18	1.2	7.0	750	36	28	51
TPE 370NZ0061	1.17	1.5	8.7	750	32	29	61
TPE 370NZ0066	1.19	1.7	9.5	750	45	31	66
TPE 370NZ0071	1.19	2.1	10.0	750	44	34	71
TPE 370NZ0076	1.20	2.3	11.0	720	46	35	76
TPE 370NZ0091	1.20	4.2	14.0	700	58	43	91

How to order*

TPE							
Type	Color code**	Type	Internal code	Hardness	Modulation		
22 Injection translucent transparent 23 Injection Semi filled grades 27 Adhesion on polar polymer 29 Injection general type 37 Extrusion	0N Natural 3B White 4B Grey 5M Brown 6A Orange 6C Yellow 7R Red 7V Purple 8V Green 9B Blue 9N Black	Z SEBS		<i>In Shore A</i>	P polar compatible F high fluidity C Food contact		

*Nota: Please consult your local BENVIC sales representative to check the availability of all product lines

** Other colors on demand

DOTFLEX — SEMI FILLED SEBS

<i>Catalogue P/N</i>	<i>Density [g/cm³]</i>	<i>Modulus [Mpa]</i>	<i>Tensile Strength [Mpa]</i>	<i>Elongation at break [%]</i>	<i>Compression set [%]</i>	<i>Tear strength [kN/m]</i>	<i>Hardness [Shore A]</i>
TPE 230NZ0031	1.02	0.5	5.5	860	39	20	31
TPE 230NZ0056	1.00	1.2	8.1	840	45	24	56
TPE 230NZ0061	1.00	1.5	9.4	820	47	27	61
TPE 230NZ0066	1.00	1.8	11.2	810	48	30	66
TPE 230NZ0072	0.99	1.9	11.8	800	47	35	72
TPE 230NZ0084	1.00	3.2	13.5	730	52	49	84
TPE 230NZ0091	1.00	3.7	14.5	720	57	54	91

DOTFLEX — ADHESION ON POLAR POLYMERS

<i>Catalogue P/N</i>	<i>Density [g/cm³]</i>	<i>Modulus [Mpa]</i>	<i>Tensile Strength [Mpa]</i>	<i>Elongatiion at break [%]</i>	<i>Adhesion</i>	<i>Tear strength [kN/m]</i>	<i>Hardness [Shore A]</i>
TPE 270NZ0055P	1.04	1.8	10.5	600		36	55
TPE 270NZ0061P	1.04	2.1	12.0	550		40	61
TPE 270NZ0065P	1.03	2.1	8.5	570	ABS, PC, PC/ABS, PA6.6, PA6.6, PMMA, TPU	35	65
TPE 270NZ0072P	1.05	2.9	12.6	540		46	72
TPE 270NZ0080P	1.08	3.7	16.0	590		60	80
TPE 270NZ0090P	1.10	5.4	15.0	530		68	90
TPE 270NZ1090P	1.19	4.5	7.5	500	ABS, PC, PBT, TPC	40	90

DOTFLEX — FILLED SEBS

<i>Catalogue P/N</i>	<i>Density [g/cm³]</i>	<i>Modulus [Mpa]</i>	<i>Tensile Strength [Mpa]</i>	<i>Elongation at break [%]</i>	<i>Compression set [%]</i>	<i>Tear strength [kN/m]</i>	<i>Hardness [Shore A]</i>
TPE 290NZ0018	1.08	0.3	4.0	940	38	16	18
TPE 290NZ0029	1.13	0.5	5.5	780	33	20	29
TPE 290NZ0033	1.13	0.7	4.1	820	45	17	33
TPE 290NZ0041	1.15	0.8	6.7	800	35	23	41
TPE 290NZ0052	1.17	1.0	7.5	750	36	24	52
TPE 290NZ0061	1.18	1.2	8.9	780	38	27	61
TPE 290NZ0066	1.18	1.7	9.0	760	48	31	66
TPE 290NZ0073	1.16	2.3	11.0	760	41	36	73
TPE 290NZ0077	1.14	2.5	12.5	810	45	42	77
TPE 290NZ0087	1.18	3.4	11.8	680	54	41	87
TPE 290NZ0093	1.14	4.8	13.8	660	56	40	93



DISCLAIMER: The commercial information presented here does not constitute any binding agreement with BENVIC. Please consult your local BENVIC sales representative for full and current product details

APPLICATIONS



BUILDING &
CONSTRUCTION

Static and dynamic window gaskets,
fluid seals & conducts, flooring



AUTOMOTIVE

Exterior, interior and under the
bonnet parts



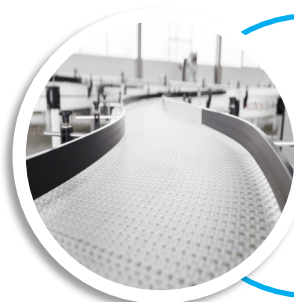
ELECTRICAL &
ELECTRONICS

Power tools, consumer electronics,
sockets, cable & connector jacketing
and accessories, appliances,



CONSUMER

Footwear, leisure goods, toys,
kitchenware, hand tools, furniture



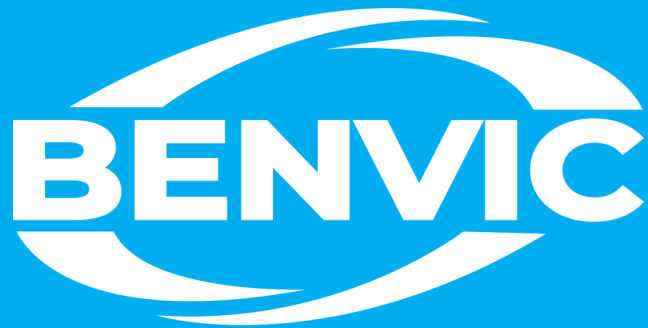
INDUSTRIAL

Wheels, belts, profiles, heating
systems, energy systems, vibration
filtering



PERSONAL &
HEALTH CARE

Hearing protection, dental care,
cosmetics, orthopedic devices



Redesigning plastics. For good.



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