

TPUs FOR COATING AND COAGULATION

Thermoplastic polyurethane (TPU) granules are innovative technical materials with characteristics that make them suitable for use in many disparate applications.

One of these applications is that of synthetic coating materials.

The Pakoflex series by Epaflex, our first range of TPUs, includes products specifically developed for coagulation and coating processes.

The available range varies mainly in terms of the elongation modulus, the composition of polyester and viscosity, so that our customers can choose the product that best suits their requirements.

Epaflex produces TPUs at a consistently high quality and level of processability to meet the needs of the most complex and advanced applications.

ISO 9001 certification is a further guarantee of the exceptional standard of our processes.



PAKOFLEX is the line
of TPUs designed for coating and
coagulation and offer many benefits:

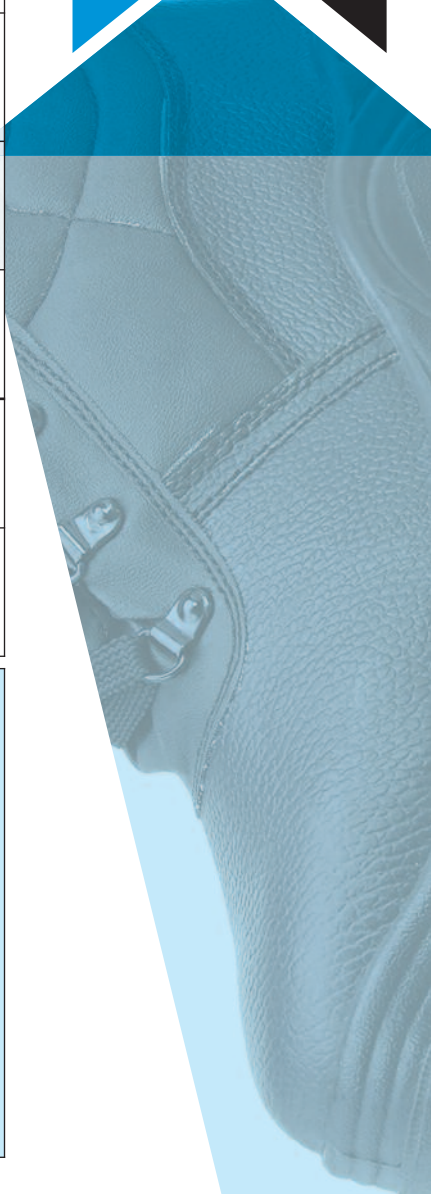
- Excellent processability
- Different viscosity ranges
- Good heat resistance
- Homogeneity of viscosity

The Pakoflex products can be used in the field of coagulation and coating of textile substrates for synthetic leather for linings and shoe uppers, leather goods, upholstery for cars, clothing and furniture.

PAKOFLEX GRADE	0604 BV	0604 LV	0604 B	0604 M	0604 BV	0604 B	0604 M	0604 A	0604 E	1100 F	1100 B	1100 M	2200 B	2200 M
Viscosity in 20% in DMF solution (mPa.s)		2.000 - 6.000		20.000 - 40.000			20.000 - 40.000					20.000 - 40.000		20.000 - 40.000
Viscosity in 25% in DMF solution (mPa.s)	10.000 - 20.000		30.000 - 50.000		10.000 - 20.000	30.000 - 50.000			5.000 - 15.000	3.000 - 7.000	30.000 - 50.000		30.000 - 50.000	
Viscosity in 30% in DMF solution (mPa.s)										12.000 - 18.000				
Hardness (Shore)	77 - 81 A		77 - 81 A	77 - 81 A	84 - 89 A	84 - 89 A	84 - 89 A	84 - 89 A	46 - 49 D	51 - 54 D	51 - 54 D	51 - 54 D	66 - 69 D	66 - 69 D
Tensile Module 100 % (MPa)	4,8		4,8	4,8	6,0	6,0	6,0	6,0	10,0	9,5	10,0	11,0	22,0	22,0
Tensile Module 300 % (MPa)	11,0		11,0	11,0	13,0	13,0	13,0	13,0		24,0	26,0	28,0		
Elongation at break (%)	580		580	580	530	530	530	530	500	450	420	420	350	350
Tensile strenght (MPa)	36		36	36	38	38	38	38	40	45	46	46	47	47
Type	Ester		Ester	Ester	Ester	Ester	Ester	Ester	Ester/Ether	Ester	Ester	Ester	Ester	Ester



EPAPFLEX
POLYURETHANES



STORAGE

The TPUs by Epaflex must be stored in a dry place at room temperature preferably around 20 °C and in any case at a temperature that is neither too hot nor too cold, and ideally in an environment that is cool and ventilated.

PACKAGING

Epaflex TPUs come are in various packaging such as: plastic bags of 25 Kg (Pallets of 750, 875 and 1000 kg) and big bags and octabins.



EPAFLEX was established in 1991 as a system house specialised in producing polyurethane systems for the footwear industry.

Over the years, Epaflex's business has expanded further and diversified, first with the second line of products, Thermoplastic polyurethane (TPU) granules and then with the production of Polyurea, Polyaspartic Polyureas, Prepolymers and Sprays Foams for insulation.

Along with Elachem S.p.A., Epaflex belongs to an industrial group that recently completed an important chemical plant for resin production.

All the polyesters used in Epaflex TPU are manufactured in Elachem so that the quality of the raw material can be carefully controlled, giving it a suitable level of competitiveness for the market needs.

EPAFLEX 
POLYURETHANES spa

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