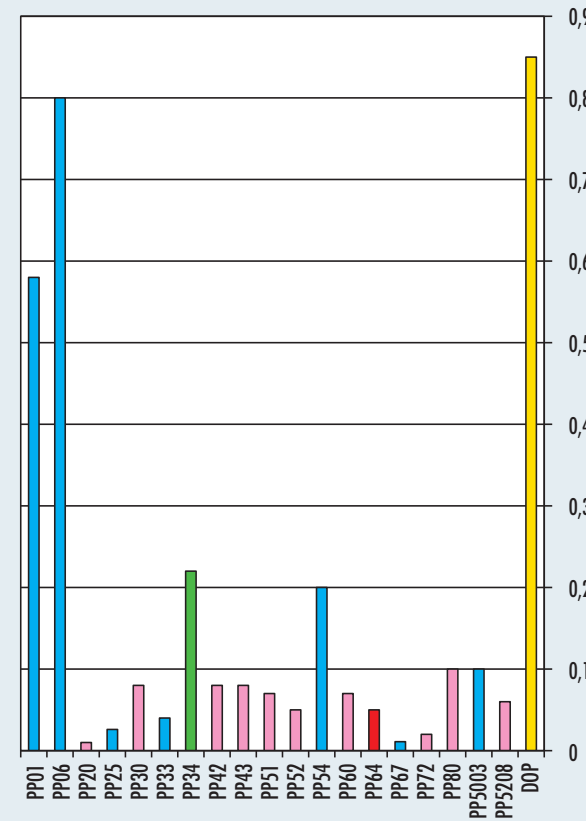
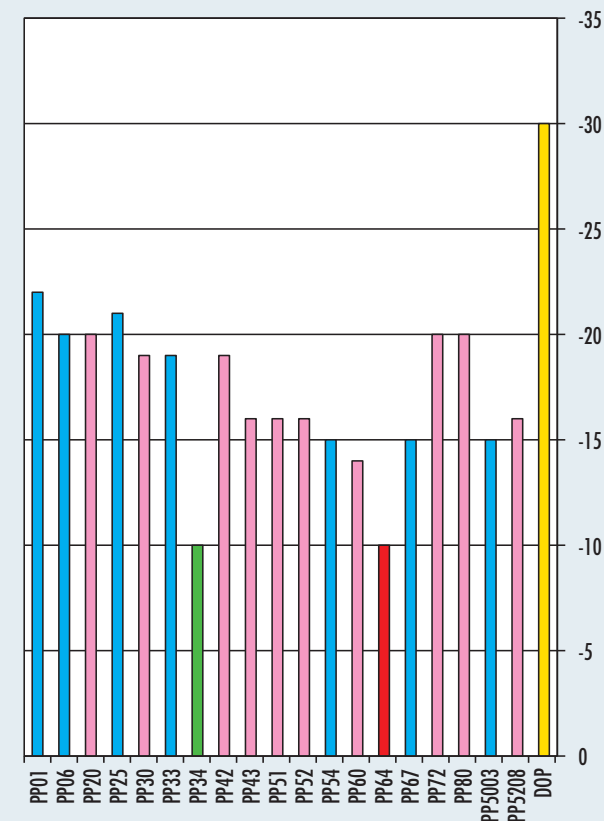


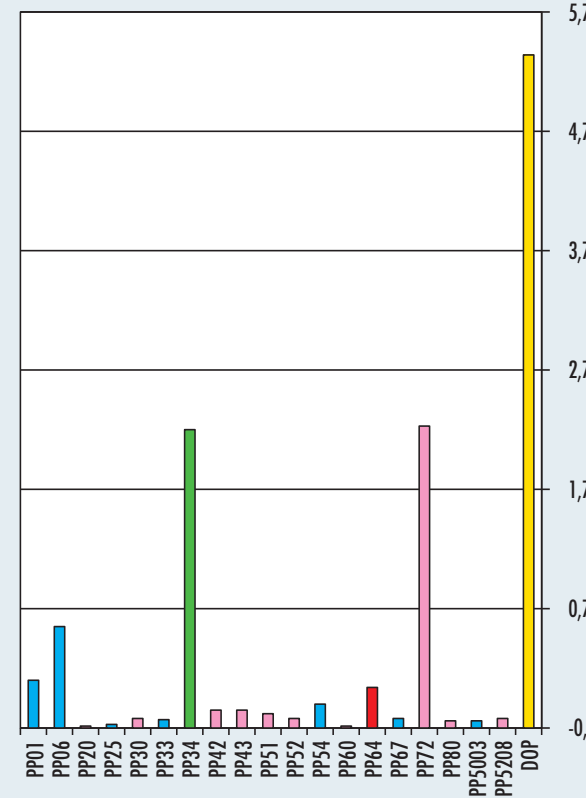
Polistirene migration



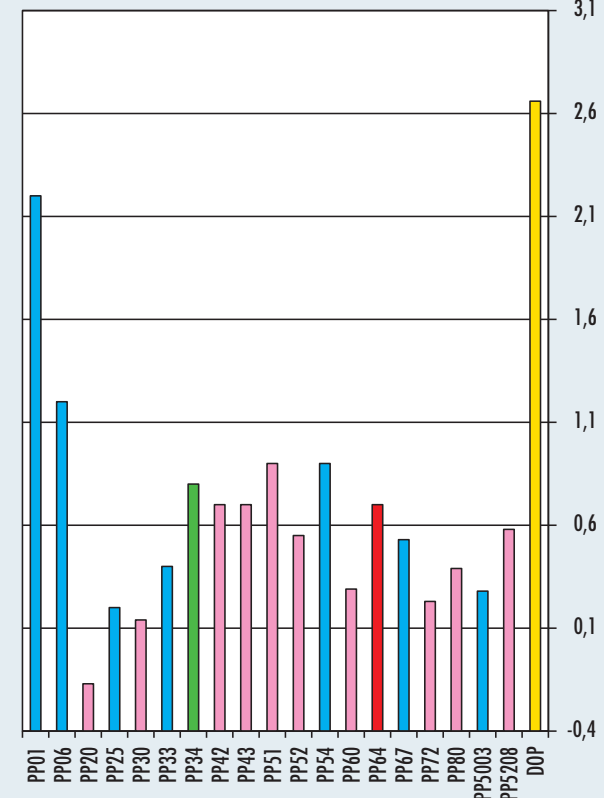
Clash & Berg



Exane extraction



Oil extraction

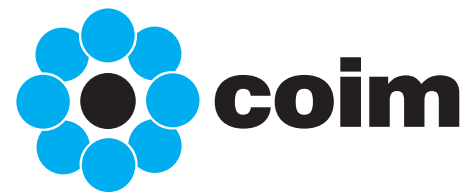


■ Phr=30,5 ■ 30<Phr<40 ■ Phr=45 ■ 55<Phr<65 ■ Phr=90



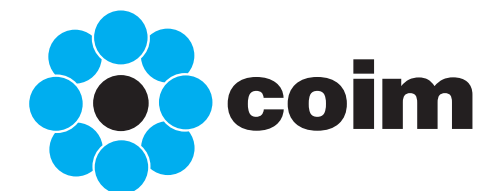
Plaxter

SYNOPTIC TABLE



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Typical properties											
	Dynamic viscosity 25°C	Dynamic viscosity 35°C	Acidity (mg KOH/g)	Colour (Apha)	N° OH (mg KOH/g)	Efficiency (Phr)	Hardeness (Shored A)	Polystyrene migration (% weight loss 10 days 70°C)	Clash & Berg (°C)	Exane extraction (1 day at 23°C)	Olive oil extraction (% weight loss 7 days at 50°C)
PP01	400 - 600	100 - 300	< 1,0	< 250	< 20	60.0	78	0.58	-22	0.40	2.60
PP06	600 - 1000	250 - 450	< 2,0	< 200	< 90	60.0	85	0.80	-20	0.85	1.60
PP20	45000 - 46000	17000 - 27000	< 2,0	< 200	< 35	39.0	66	0.01	-20	0.01	0.23
PP25	12000 - 16000	6000 - 7000	< 2,0	< 250	< 55	60.0	88	0.026	-21	0.03	0.60
PP30	2700 - 3700	1500 - 3500	< 1,0	< 200	< 20	32.5	68	0.08	-19	0.08	0.54
PP33	5500 - 7500	2600 - 3400	< 2,0	< 150	< 3	60.0	87	0.04	-19	0.07	0.80
PP34	2700 - 3700	1250 - 1650	< 1,2	< 150	< 30	90.0	69	0.22	-10	2.50	1.20
PP42	1800 - 2200	900 - 1200	< 1,0	< 200	< 20	35.2	67	0.08	-19	0.15	1.10
PP43	1600 - 2200	800 - 1200	< 1,0	< 200	< 20	35.2	67	0.08	-16	0.15	1.10
PP51	1800 - 2200	900 - 1200	< 1,0	< 200	< 40	37.5	65	0.07	-16	0.12	1.30
PP52	2700 - 3800	1400 - 1900	< 1,0	< 200	< 20	37.5	63	0.05	-16	0.08	0.95
PP54	700 - 1700	500 - 700	< 1,0	< 200	< 20	60.0	82	0.20	-15	0.20	1.30
PP60	7300 - 8300	3500 - 4200	< 1,0	< 200	< 5	36.0	65	0.07	-14	0.01	0.69
PP64	3100 - 4100	1700 - 2200	< 1,0	< 200	< 20	44.5	68	0.05	-10	0.34	1.10
PP67	2600 - 3600	1800 - 2100	< 1,0	< 200	< 20	60.0	82	0.011	-15	0.08	0.93
PP72	900 - 1900	550 - 800	< 2,0	< 250	< 20	40.0	69	0.02	-20	2.53	0.63
PP80	5100 - 6100	2500 - 3000	< 1,0	< 250	< 80	33.5	64	0.10	-20	0.06	0.79
PP5003	7100 - 8100	3300 - 3900	< 1,0	< 200	< 20	60.0	82	0.10	-15	0.06	0.68
PP5208	2200 - 4000	1200 - 1600	< 3,0	< 200	< 25	37.5	65	0.06	-16	0.08	0.98
DOP			< 0,10			30.5	63	0.85	-30	5.64	3.06

The features described in this TechNote represent average values found during the evaluation of a significant number of Plaxter's batches. This technical note is written according to our best knowledge but has not to be considered as sales specifications.

Applications													
	Cables and Wires	Tapes	Cling films	Advertising films	Floor covering	Liners and Coatings	Synthetic leathers and Protective clothing	Hoses	Gaskets	Conveyor belts	Caps	Footwear	Coloured pastes
PP01							●						●
PP06		●					●			●			●
PP20	●							●					
PP25	●							●					
PP30	●		●				●	●	●				
PP33			●				●						
PP34					●				●				
PP42	●	●		●									
PP43		●										●	
PP51			●			●				●	●		
PP52	●		●	●	●	●				●	●	●	
PP54				●			●						●
PP60								●					
PP64									●				
PP67		●					●		●				
PP72							●			●			
PP80	●		●					●					
PP5003							●	●		●			
PP5208	●			●	●	●				●		●	

This table has to be considered as a guide to frequently used Plaxter P for the mentioned PVC applications. Specific demands may narrow down the choice of the product suited to a specific application or lead to a choice differing from this overview.

Regulatory status				
	FDA Title 21 CFR 175.105	FDA Title 21 CFR 175.300	FDA Title 21 CFR 177.1210	Annex I EU Regulation n° 10/2011
PP01	●	●	●	
PP06	●	●	●	
PP20	●	●	●	●
PP25	●	●	●	●
PP30	●	●	●	●
PP33				●
PP34	●	●	●	
PP42				
PP43		●	●	
PP51	●	●	●	●
PP52	●	●	●	●
PP54	●	●	●	
PP60	●	●	●	●
PP64				
PP67				
PP72	●	●	●	
PP80	●	●	●	●
PP5003				
PP5208	●	●	●	

This table has to be considered only as a guideline for the choice of products suitable for the use in food contact applications. Specific or global migration limits have to be controlled by the end users and correlated with the appropriate regulation.

Monomeric plasticizers						
Chemical family	Product name	Chemical name	Acronym	CAS number	Einecs number	Boiling point
Adipates	Diottiladipato	Di-(2ethylhexyl) adipate	DOA or DHEA	103-23-1	203-090-1	175°C 2 mm Hg
	Dimetiladipato	Dimethyl adipate	DMA	627-93-0	211-020-6	110°C 14 mm Hg
Benzoates	Plaxter B181	2-ethylhexyl benzoate				
	Plaxter B271	Dipropylen glycol dibenzoate		27138-31-4	248-258-5	
Terephthalates	Plaxter 102	Di-(2ethylhexyl) terephthalate	DOT or DOTP	6422-86-2	229-176-9	400°C 760 mm Hg
Special Phthalates	Ftalato di etile	Diethyl phthalate	DEP	84-66-2	201-550-6	296°C 760 mm Hg
	Ftalato di metile	Dimethyl phthalate	DMP	131-11-3	205-011-6	248°C 760 mm Hg
	Ftalato di cicloesile	Dicyclohexyl phthalate	DCHP	84-61-7	201-545-9	220°C 10 mm Hg
	Ftalato di cicloesile solido	Dicyclohexyl phthalate solid	DCHP	84-61-7	201-545-9	220°C 10 mm Hg

The features described in this TechNote represent average values found during the evaluation of a significant number of Plaxter's batches. This technical note is written according to our best knowledge but has not to be considered as sales specifications. International standards are taken as the reference for the relevant test, however the choices of possible options and changes are specified in the corresponding internal analytical methods. While ensuring the consistency of quality of materials listed in this TechNote we reserve the possibility of periodical updated editions or revisions thereof. The information presented here are given in good faith but without guarantee; are based on our experience, indicate the results of the work of our laboratory and does not necessarily indicate the performance of the final product. We cannot be held responsible for the results obtained with our products and any loss or injury which may result from their use. Our suggestions do not raise from test the validity of our products for each process and for each end-use.

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