Since 1955 Orthophthalic, Isophthalic and DCPD resins for all the major fields of application

POLIPLAST

TRANSPORTS
NAUTICAL FIELD
SYNTHETIC MARBLE
AUXILIARY PRODUCTS
PUTTIES AND MASTICS
ABRASIVES
ARTISTIC CASTINGS
REINFORCED PLASTICS
SANITARIES AND SWIMMING POOLS
SMC AND BMC
SILOS AND CONTAINERS
BUILDING INDUSTRY

Technical data sheet n°: 001
Revision n°: 2
Dated : 08-11-07

Unsaturated polyester resins POLIPLAST

Products of the CARLO RICCO' & F.LLI S.p.A.

Introduction

Carlo Riccò & F.lli S.p.A., has been on the market for more than **50 years**, and it developed a range of **Unsaturated Polyester resins** suitable to the outmost different application fields.

Beeing impossible a synthesis of all materials daily delivered to our Customers, we thought to report only resins which represent our **main product bases** and indicate fields of application where they are normally used.

In this way you have a global sight of values within which the different resins can be seen; for each of them the technical mostly significant data are reported . After their consideration you will be able to ask for more specific details, like for instance the papers about the **field of application** in which you are interested in and the real and proper **Technical Data sheet** of a certain product..

Our Company is used to make all possible efforts to **meet Customers' requests**, were it a technical need, chemical or mechanical characterization of products or application requirements. Even if resins are delivered as direct derivation of the base one, it is always possible to use **blends of the same ones** and/or add them with special chemical additives.

It can therefore happen that resins in their state of delivery have a different **trade name**.

For every material not only the **chemical characteristics** are mentioned but also their different **delivery versions**.
The same resin can be delivered in the following versions:

- **Pre-accelerated** with Cobalt salts(for catalysis with system Cobalt/ cheton peroxide)
- **Diluted**, therefore with different viscosity and styrene % .
- **Thixotropic**, i.e. added with special products avoiding the dropping down in the vertical application.

A special mention for the resin workability is to be made to the **gel time** as Poliplast resins, unless differently indicated, are usually delivered with **seasonly referred times** which can be taken from specifications of every product.

Thanking you for your beeing interested in our products we invite you **to get in touch directly with our sale people or our R & D Laboratory staff** which will be pleased to answer to your requests.

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POLIPLAST resins		VERSIONS						MAIN APPLICATION FIELDS																ISO 3521-76	ASTM D2583-87	ASTM D 570	ASTM D 570	ASTM D 638	ASTM D 638	ASTM D 638	ASTM D 790	ASTM D 790	ASTM D 648
RANGE	GENERAL CHARACTERISTIC	Pre-accelerated with Cobalt	Pre-acceleraed with amina	Thxotropic	Stabilized with UV	LSE low emission	LSC low styrene content	GENERAL purposes	PRFV	PRFV – Laminates and trucks	PRFV - NAUTICAL	CAR BODY PUTTIES	MASTICS – ANCHORAGE	ABRASIVES	Synthetic marble - casting	SMC – BMC	PULTRUSION	Reinforc. Of sanit. Made of ABS	Reintor. Of sanitary made of PMMA	agglomerates	Slabs of granite worked at warm	SPECIAL applications	GELCOAT	VOLUMETRIC SHRINKAGE AFTER THE CURING	BARCOL HARDNESS	WATER ABSORBEMENT (24 hours at 23°C)	WATER ABSORBEMENT (28 days at 23°C.)	TRACTION RESISTANCE	TRACTION RESISTANCE MODULUS	LENGTENING TO BREAK	BENDING RESISTANCE	BENDING MODULUS	H.D.T. (Temp. Distors. under load) a 1820 Kpa
																								%		%	%	MPa	MPa	%	MPa	MPa	°C.
R 14	modif. flex. Ortho	◆		◆		◆										◆						◆		7,4		0,44	1,32	9		46,6			
R 30	Orthophthalic		◆										◆	◆										8,1	41	0,43	1,54	40	3.800	1,3	92	3.500	54
R 33	Orthophthalic		◆										◆	◆										8,1	45	0,33	1,83	43	4.300	1,3	107	3.900	56
R 40	Isophthalic	◆	◆	◆	◆			◆	◆		◆											◆		10,4	45	0,25	1,05	40	5.100	1,6	91	3.300	100
R 53	Modif. orthophth.	◆		◆		◆													◆					9,0	38	0,34	1,59	31	2.500	2,5	58	2.100	38
R 54	DCPD	◆	◆	◆	◆	◆		◆	◆	◆		◆	◆	◆		◆	◆			◆			◆	9,4	51	0,30	1,17	32	3.800	2,6	78	3.300	118
R 55/8	Orthophthalic	◆						◆							◆									8,5	42	0,28	1,47						
R 61	Orthophthalic	◆		◆	◆			◆	◆	◆				◆										8,4	48	0,38	1,95	59	4.500	1,5	111	4.000	73
R 61 S	Orthophthftalic													◆			◆					◆		8,4	50	0,26	1,55	45	4.100	1,1	125	4.000	95
R 63	Orthophthalic	◆		◆					◆						◆									7,0	42	0,39	1,94	63	4.200	1,7			58
R 65	Mod. orthophthalic	◆	◆	◆	◆	◆		◆	◆					◆	◆									8,6	43	0,50	1,96	34	2.900		100	3.200	56
R 90	DCPD/bisphenolic	◆	◆	◆		◆		◆	◆		◆		◆			◆		◆	◆			◆		7,9	42	0,17	0,67	49	4.000	0,7	88	3.600	74
R 92	DCPD/orthophthalic	◆	◆	◆													◆	◆	◆					7,3	44	0,31	1,67	32	3.800	0,8	101	3.300	56
R 96	DCPD	◆		◆	◆	◆			◆		◆		◆			◆	◆				◆		◆	8,7	43	0,29	1,28	45	3.800	3,8	84	2.900	90
UP 026	Mod. THPA/ortho		◆	◆									◆	◆										8,6	50	0,25	1,30	41	4.000	1,0	128	4.100	70
UP 028	DCPD – orthophthalic	◆	◆					◆					◆	◆								◆		7,0	25	0,37	2,20						
UP 036	Flex. DCPD		◆									◆										◆		8,2	27	0,59	1,89	54	2.800	5,1	77	2.400	40
UP 037	Flex. DCPD		◆									◆										◆	◆	7,4		1,26	3,94	13		37,6			
UP 064	DCPD	◆	◆	◆		◆	◆	◆	◆							◆	◆	◆	◆	◆				8,0	42	0,26							78
UP 067	DCPD	◆		◆	◆		◆									◆					◆		◆	6,8	47	0,32	1,56	53	2.900	2,5	95	2.800	88
AN 55	Mod. DCPD	◆		◆		◆												◆	◆					8,2		0,35	2,04				42	1.600	36
M 209	Mod. DCPD																				◆			9,4	38	0,28	1,17	38	2.000	4,8	58	1.700	49
RE 4	Mod. DCPD	◆				◆			◆	◆														9,2	46	0,28	1,33	59	2.700	3,0	98	2.900	58
VR 2	Mod. orthophthalic																			◆				8,3	46	0,21	1,16	46	3.400	1,5	106	3.200	50