

PRODUCT LINE GUIDE: VALOX™ RESINS

VALOX resins are a family of PBT, PET and semi-crystalline blends with Polycarbonate (PC) resins, offering an outstanding mix of value added properties for varieties of applications.



VALOX RESIN FOR AUTO

MVR: 250°C/1.2kg - #265°C/1.2kg, cm³/10min,
* MFR 280°C/5.00kg; flexural modulus, 2mm/min,
MPa; HDT0.45MPa; Vicat B50 softening temp, °C;
UL 94 flame class rating

		MVR	GF%	FLEXURAL MODULUS	HDT	VICAT SOFTENING TEMP	UL LISTING
VALOX General purpose resins - PBT Resins. For high precision requirements, to function reliable and safely over the life time of a car.							
325	Unreinforced PBT.	14	0	2300	110	175	HB/1.5mm
4012G	10% GF, reinforced PBT.	9@1,2kg	10	3500	215	205	HB/1.6mm
DR51	15% GF, reinforced PBT.	15	15	4500	210	210	HB/0.75mm
4022	20% GF, reinforced PBT.	16	20	6000	220	210	HB/0.84mm
4031	30% GF, reinforced PBT.	12	30	7500	220	215	HB/0.84mm

VALOX Low Warpage & Weatherable resins - PBT/ASA blends. To offer improved dimensional accuracy, good mechanical properties and weatherability.

VX4910	10% GF, reinforced PBT/ASA.	35@5kg	10	3800	205	150	
VX4920	20% GF, reinforced PBT/ASA.	17@5kg	20	6000	209	158	HB/1.6mm
VX4930	30% GF, reinforced PBT/ASA.	13@5kg	30	8500	223	176	HB/0.75mm

VALOX Aesthetics & Weatherable resins - PBT/PET blends. Developed for high stiffness, good surface quality and weatherability.

8032U	30% GF, reinforced PBT/PET, UV stabilized.	15	30	8500	217	202	HB/1.6mm
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VALOX Direct metalizable resin - PBT resin. For uses in demanding auto lighting applications.

V2000DM	Unreinforced PBT	34	0	2570	115	186	
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VALOX Super High Flow resins - PBT blends, For very demanding connector applications requiring extremely thin walls & short production cycle time.

SHF4330	15% GF, reinforced PBT/ASA.	40@5kg	15	5400	204	157	
SHF4340	20% GF, reinforced PBT.	40	20	5600	223	205	

VALOX Hydrolysis resistant resins - PBT Resins, For demanding under the hood applications requiring hydrolysis stability.

K3501	Unreinforced PBT.	26	0	2100	127	170	HB/0.75mm
K4530	15% GF, reinforced PBT.	17	15	4640	218	210	HB/0.75mm
K4560	30% GF, reinforced PBT.	12	30	7200	220	215	HB/0.75mm

VALOX RESIN FOR FOOD & HEALTHCARE

VALOX Healthcare resins - for medical and pharmaceutical applications. Biocompatible (ISO 10993 or USP Class VI), food contact compliant. EtO and steam sterilizable.

HX312C	Unreinforced PBT.	31@1.2	0	2400	125	175	
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VALOX blends - compliant with food contact regulations.

325FC	Unreinforced PBT.	20	0	2400	150	185	
815F	15% GF reinforced PBT/PET.	22	15	5100	205	197	
830F	30% GF reinforced PBT/PET.	13	30	8000	210	200	

VALOX™ RESIN FOR E&E

MVR: 250°C/2.16kg- #265°C/1.2kg , cm³/10min; flexural modulus, 2mm/min, Mpa; HDT0.45MPa; Vicat B50 softening temp, °C; UL 94 flame class rating

		MVR	GF%	FLEXURAL MODULUS	HDT	VICAT SOFTENING TEMP	UL LISTING
310SE0	Unreinforced PBT.	8	0	2600	135	165	V0/0.71mm
457	6.5% GF, reinforced PBT.	11	6.5	3500	200	210	V0/0.71mm
DR48(V)	17% GF, reinforced PBT.	14	17	5500	215	200	V0/0.89mm
451E	20% GF, reinforced PBT.	15	20	6500	220	200	V0/0.71mm
420SE0	30% GF, reinforced PBT.	11	30	9500	220	205	V0/0.71mm

VALOX Flame retardant general purpose blends - PBT resin. For electrical applications that meet high UL94 standards.

VALOX Impact modified blends - PBT blends. Offering high impact, low warpage and good dimensional stability.

357X	Unreinforced PBT/PC.	8@5kg	0	2000	135	145	V0/0.75mm
4512	10% GF, reinforced PBT/PC.	8	10	3800	200	159	V0/0.75mm
553	30% GF, reinforced PBT/PC.	7	30	8000	205	170	V0/0.86mm

VALOX Aesthetics blends - PBT blends. Offering good aesthetics and surface appearance.

855	15% GF, reinforced PBT/PET.	11	15	5000	210	190	V0/1.5mm
865	30%GF, reinforced PBT/PET.	7	30	8000	215	200	V0/1.5mm

VALOX Flame retardant resins - PBT resin. For applications requiring thin wall (<0.4mm) V0 behavior and short production cycle time.

V3504	Unreinforced PBT.	9	0	2600	135	165	V0/0.38mm
V4760	30% GF, reinforced PBT.	28@5kg	30	9500	209	202	V0/0.28mm

VALOX High CTI resins - PBT & PET resin. For applications requiring high CTI, GWFI, RTI, color stability adhesion to epoxy, need for Lasermarking.

V3500EX	Unreinforced PBT.	13	0	2600	165	180	V0/0.8mm
4521	20% GF, reinforced PBT.	19	20	7000	220	205	V0/0.75mm
4631	30% GF, reinforced PBT.	12	30	9000	220	210	V0/0.75mm
771	15% GF & 20% MF reinforced PBT.	9@5kg	15	8500	215	180	V0/0.75mm
V9561	30% GF, reinforced PET.	*33	30	10750	245	235	V0/0.8mm

VALOX Non Br/Non Cl FR resins - PBT blends. For applications requiring UL94-V0 but want to refrain from using Br & Cl.

ENH3500	Unreinforced PBT.	20	0	2700			V0/0.8mm
ENH4530	15% GF, reinforced PBT.	17	15	6400	220	205	V0/0.8mm
ENH4550	25% GF, reinforced PBT.	20	25	9200	220	205	V0/0.3mm
ENH4560	30% GF, reinforced PBT.	16	30	10000	223	207	V0/0.8mm
ENH8530	15% GF, reinforced PBT/PET.	11	15	6300	215	202	V0/1.5mm
ENH8560	30% GF, reinforced PBT/PET.	10	30	10000	210	196	V0/1.5mm

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