

NON-PHTHALATE GRADE

SOFT PVC COMPOUND FOR MEDICAL TRANSFUSION APPLICATION

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Description

The product non-phthalate grade soft PVC compound for transfusion application uses medical-use PVC as main raw material, incorporated with moderate amount of non-toxic plasticizer, non-toxic stabilizer and other non-toxic additives. The production procedure includes mixing raw materials, plasticizing, extruding, and granulating. The final product is transparent compound with $\Phi 3\text{mm} \times 4\text{mm}$.

Features

1. Product properties can comply with our company technical standard (Refer to JT20-2008 Standard)
2. Designed for customers with specific purpose for PVC compound containing no phthalate plasticizer, including 6P (DEHP, DIDP, DNOP, DINP, BBP, DBP).
3. Suitable for extrusion or injection production, processing technique can refer to PVC compound with phthalate plasticizer, the processing temperature for non-phthalate PVC compound should be 5-10°C higher than phthalate PVC compound.
4. Different hardness products are available according to the customer requirement.

Main Physical Properties & Typical Values

Grade	Hardness	Tensile Strength	Elongation Strain	Heat stable time at 180°C
	GB 2411-2008 Standard value ± 2	GB/1040.3-2006 ≥ 13 MPa	GB/T1040.3-2006 ≥ 250 %	GB/T2917.1-2002 ≥ 40 min
5423T-A74 /A74B/A74G	74(A)	18	380	86
5423T-A83 /A83B/A83G	83(A)	20	300	90
5426T-A83 /A83B/A83G	83(A)	20	340	85
5423D-A83	83(A)	20	310	100
5412	--	17	380	98

Main Chemical Properties & Typical Values

Grade	Reducing substance	Acidity/Alkalinity	Heavy metals	Non-volatile	Ash	Residual VCM
	GB/T14232 .1-2004	GB/T14233 .1-2008	GB/T14233 .1-2008	GB/T14233 3.1 -2008	GB/T93 45.1-20 08	GB/T4615- 2006
	≤ 0.3 ml	≤ 1.0	≤ 0.3µg/ml	≤ 2.0 mg/100ml	≤ 1 mg/g	≤ 1 µg/ml
5423T-A74/A74B/A74G	0.1	< 1	0.3	< 1	0.1	0.4
5423T-A83/A83B/A83G	0.1	< 1	0.3	< 1	0.1	0.4
5426T-A83/ A83B/A83G	0.1	< 1	0.3	< 1	0.1	0.4
5423D-A83	0.1	< 1	0.3	< 1	0.1	0.4
5412	0.1	< 1	0.3	< 1	0.1	0.4

Recommended Processing Technique

Equipment:

Ratio of length and diameter: 24 : 1

Screw compression ratio: 2.5:1 ~3.5:1; Generally cooling system is not necessary

Extrusion die head: To avoid scorch problem please use smooth pipeline and well-controlled

die head temperature

Temperature control:

Hardness (Shore A)	Extruder Zone Temp. (°C)	Melting Temp. (°C)
50~60	145~175	155-165
60~70	150~180	160-170
70~80	155~185	170-180
80~90	160~190	175-185

Please contact our customer service for more technical service.