

INJECTION GRADE

SOFT PVC COMPOUND FOR MEDICAL TRANSFUSION APPLICATION

Description

The product injection grade soft PVC compound for transfusion application uses medical-use PVC as main raw material, incorporated with moderate amount of 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. Comply with the standard of GB15593—1995 and company technical standard.
2. Provide excellent thermal stability and high flow properties.
3. Suitable for production of medical transfusion applications, such as dropper, connector, valve and etc.

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
5401D-A83/A83B	83 (A)	19	320	95
5401D-A90/A90B	90 (A)	21	330	100
5401D-A93	93 (A)	23	280	90
5401D-D62/D62B	62 (D)	23	270	120
5401D-D80B	80 (D)	24	260	100

Main Chemical Properties & Typical Values

Grade	Reducing substance	Acidity/Alkalinity	Heavy metals	Non-volatile	Ash	Residual VCM
	GB/T14232.1-2004 ≤ 0.3 ml	GB/T14233.1-2008 ≤ 1.0	GB/T14233.1-2008 $\leq 0.3\mu\text{g/ml}$	GB/T14233.1-2008 ≤ 2.0	GB/T934 5.1-2008 ≤ 1 mg/g	GB/T4615-2006 ≤ 1 $\mu\text{g/ml}$

mg/100ml

5401D-A83/ A83B	0.1	< 1	0.3	0.6	0.1	0.4
5401D-A90/ A90B	0.1	< 1	0.3	0.8	0.1	0.4
5401D-A93	0.1	< 1	0.3	0.7	0.1	0.4
5401D-D62/ D62B	0.1	< 1	0.3	0.8	0.1	0.4
5401D-D80B	0.1	< 1	0.3	0.8	0.1	0.4

Recommended Processing Technique

Temperature control:

Hardness (Shore A or D)	Extruder Zone Temp. (°C)	Melting Temp. (°C)
70~80 (A)	155~180	165-175
80~90 (A)	160~185	170-185
60~70 (D)	160-190	175-190
80~100 (D)	160-195	175-195

Please contact our customer service for more technical service.