

ELASTIC GRADE

SOFT PVC COMPOUND FOR MEDICAL TRANSFUSION APPLICATION

Description

The product elastic 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. Suitable for production of medical transfusion applications, such as high elastic pump, balloon cuff, endotracheal tube, Sputum suction tube and etc.
3. Comparing with conventional tube grade product, this elastic grade product has excellent performance in low temperature resistance, elasticity and frosted appearance.

Main Physical Properties & Typical Values

Grade	Hardness	Tensile Strength	Elongation Strain	Heat stable time at 180°C	Tensile elastic retracting rate
	GB 2411-2008 Standard Value ± 2	GB/1040.3-2006 ≥ 13 MPa	GB/T1040.3-2006 ≥ 250 %	GB/T2917.1-2002 ≥ 40 min	Q/GHPX2 $\leq 150\%$
5401E-A59	59(A)	13	390	60	130
5401E-A62	62(A)	15	410	60	130
5401E-2A68/ 2A68B	68(A)	16	380	130	130
5401E-2A68-1	68(A)	16	400	180	138
5401E-2A68-2	68(A)	17	380	130	130
5401E-A73	73(A)	17	380	70	70
5401E-A78/ A78B	78(A)	20	360	120	--
5401E-XA80B	80(A)	21	340	80	--
5401E-A83B	83(A)	21	340	60	--

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/T14233.1-2008	GB/T9345.1-2008	GB/T4615-2006
	≤0.3ml	≤1.0	≤0.3 μg/ml	≤2.0 mg/100ml	≤1 mg/g	≤1μg/ml
5401E-A59	0.1	< 1	0.3	0.8	0.1	0.4
5401E-A62	0.1	< 1	0.3	0.8	0.1	0.4
5401E-2A68/ 2A68B	0.1	< 1	0.3	0.9	0.1	0.4
5401E-2A68-1	0.1	< 1	0.3	1.0	0.1	0.4
5401E-2A68-2	0.1	< 1	0.3	0.7	0.1	0.4
5401E-A73	0.1	< 1	0.3	0.8	0.1	0.4
5401E-A78/ A78B	0.1	< 1	0.3	0.7	0.1	0.4
5401E-XA80B	0.1	< 1	0.3	1.0	0.1	0.4
5401E-A83B	0.1	< 1	0.3	0.9	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	140~165	155-160
60~70	145~170	160-165

70~80

150~175

165-175

80~90

155~180

170-180

Please contact our customer service for more technical service.