

Producer: Sinoaft Petromicals / TVK

## TIPELIN FS 471-02

### Description:

**TIPELIN FS 471-02** is a film grade of high density polyethylene copolymer (with hexen as comonomer) grade. The product has high molecular mass, very good Tear strength and Dart drop resistance, low gel content, good vapour barrier properties. The grade contains antioxidants and acid scavenger.

### Application:

**TIPELIN FS 471-02** is recommended for extra thin packaging films, bags, shopping bags and garbage bags.

**TIPELIN FS 471-02** is suitable for food contact and for manufacturing of pharmaceutical packing products. The product complies with Food Contact and Pharmaceutical Regulations.

PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUE
Melt Mass-Flow Rate (MFR)(190°C/2.16kg)	ISO 1133	g/10min	0.18
Density (23°C) *	ISO 1183	kg/m <sup>3</sup>	947
Tensile Strength at Yield (MD/TD) **	ISO 527-3	MPa	22/23
Tensile Strength at Break (MD/TD) **	ISO 527-3	MPa	48/42
Tensile Strain at Break (MD/TD) **	ISO 527-3	%	700/750
Elmendorf Tear Resistance (MD/TD) **	ISO 6383-2	cN	26,27
Dart Drop (F50) **	ISO 7765-1	g	110,000
Flexural Modulus *	ISO 178	MPa	1100
Spencer Impact Strength **	ASTM D 3420	MPa	35
Vicat Softening Temperature *	ISO 306/a 120	°C	125
Shore D Hardness *	ISO 868	-	63
OIT (200°C) *	EN 728	min	55

\* Average mechanical property values of several measurements carried out on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291)

\*\* Average mechanical property values of several measurements on film (MD= machine direction, TD= trans direction) thickness of 0.025 mm, blow up ratio 4:1.

### Processing:

**TIPELIN FS 471-02** can be used in HDPE or universal screw provided extrusion machines. Recommended processing temperature 200-220 °C.

### Storage and Handling:

Pallets are packed in 25 kg PE-LD bags and transported on stretch-wrapped pallets at load of polymer 1375 kg.