

TOPAS® 7010F-600

环烯烃共聚物

Topas Advanced Polymers, Inc.

产品说明

Product Description

TOPAS 7010F-600 is a robust film extrusion grade designed for blending with polyethylene (PE). It is a moderate clarity amorphous resin with high stiffness, moisture barrier, chemical resistance, thermoformability and purity for food and general purpose applications. It is used in blends in both cast and blown processes, and in monolayer and multilayer products. Leading film applications include twist wrap, forming webs, protective packaging, shrink films and labels, and easy tear packaging. Industrial uses include formed PE and PP sheet products. For property enhancement at elevated temperatures, higher glass transition temperature (Tg) grades of TOPAS are recommended.

Selected Applications

Forming films (header bags, etc.)

Protective packaging

Shrink films and labels

Twist films

Decorative sheet

Food packaging

Food contact

Leading Attributes

Clarity, forming, barrier, purity, halogen-free

Stiffness for downgauging, improved forming

High shrink, low stress, gloss, toughness

Outstanding deadfold, clean cutting

Stiffness, chemical resistance, forming, even draw

Not manufactured with BPA, phthalates, or halogens

Broad regulatory approval

Related Grades for Packaging and Film Extrusion

TOPAS 8007F-04 - ultimate clarity extrusion grade

TOPAS 8007F-600 - robust clarity extrusion grade especially for PE blends

基本信息				
特性	纯度高 共聚物 收缩性高	防潮 耐化学性良好 通用	刚性,高 韧性良好 无 BPA	高光 食品接触的合规性 无定形的
用途	无卤 包装 混合 通用	中等透明度 薄膜 流延薄膜	标签 片材	多层薄膜 食品包装
机构评级	DMF 12132 欧洲 10/1/2011 12:00:00 AM	FDA FCN 405	ISO 10993	USP 第VI类
形式	粒子			
加工方法	薄膜挤出	吹塑薄膜	流延薄膜	热成型
物理性能	额定值	单位制	测试方法	
密度	1.02	g/cm ³	ISO 1183	
熔流率(熔体流动速率)			ISO 1133	
190°C/2.16 kg	1.8	g/10 min	ISO 1133	
230°C/2.16 kg	10	g/10 min	ISO 1133	
溶化体积流率(MVR)			ISO 1133	
190°C/2.16 kg	2.00	cm ³ /10min	ISO 1133	
230°C/2.16 kg	11.0	cm ³ /10min	ISO 1133	
吸水率 (饱和, 23°C)	0.010	%	ISO 62	
薄膜	额定值	单位制	测试方法	
薄膜厚度 - 经测试	70	µm		
拉伸模量			ISO 527-3/1	
MD : 70 µm, 铸造薄膜	2100	MPa	ISO 527-3/1	
TD : 70 µm, 铸造薄膜	1700	MPa	ISO 527-3/1	
拉伸应力			ISO 527-3/50	
MD : 断裂, 70 µm, 铸造薄膜	55.0	MPa	ISO 527-3/50	
TD : 断裂, 70 µm, 铸造薄膜	50.0	MPa	ISO 527-3/50	
伸长率			ISO 527-3/50	
MD : 断裂, 70 µm, 铸造薄膜	3.4	%	ISO 527-3/50	
TD : 断裂, 70 µm, 铸造薄膜	3.4	%	ISO 527-3/50	
透氧率 (23°C, 70 µm, 挤塑薄膜, 50% RH)	25	cm ³ mm/m ² /atm/24 hr	ASTM D3985	
水气透过率 (70 µm, 23°C, Cast Film, 85% RH)	0.094	g mm/m ² /atm/24 hr	ASTM F1249	
热性能	额定值	单位制	测试方法	
玻璃转化温度	78.0	°C	ISO 11357-2	

光学性能	额定值	单位制	测试方法
光泽度 (60°, 70.0 μm, 铸造薄膜)	> 100		ISO 2813
雾度 (70.0 μm, 铸造薄膜)	> 2.0	%	ISO 14782
挤出	额定值	单位制	
挤塑机进料部分	20 到 70	°C	
挤出机螺杆长径比L / D	> 28:1		
料筒1区温度	210 到 230	°C	
料筒2区温度	220 到 240	°C	
料筒3区温度	220 到 240	°C	
料筒4区温度	220 到 240	°C	
口模温度	220 到 240	°C	
挤压说明			
Head pressure: P > 140 bar / 2000 psi; Fine screen packs as needed Screw speed: RPM > 50% nominal Screw design: Multi-purpose or barrier screw with mixing section Screw diameter > 60 mm / 2.5 inch Grooved Feed: Hot temperature: 120°C (248°F)			