

产品比较

Technical Data

产品说明

YUPLENE® BX3500	YUPLENE BX3500 is a high crystalline propylene impact copolymer designed for injection molding applications. YUPLENE BX3500 has excellent stiffness, mechanical properties, heat resistance and good impact strength, which make YUPLENE BX3500 suitable for auto parts, electric appliances, large size containers, thin wall and high speed injection applications. This is not a chemical cracked grade so it is free from surface gas mark. YUPLENE BX3500 can reduce various injection problems such as surface trouble, shrink, warpage etc. and reduce the cycle time of injection molding due to rapid crystallization.			
Moplen EP647N	Moplen EP647N is a polypropylene impact copolymer manufactured using the Spheripol process. This grade has high gloss and contains antistatic agent Typical applications include injection molding of electrical appliance parts, toys and containers.			
Moplen RP441N	Moplen RP441N is a polypropylene random copolymer manufactured using the Spheripol process. With its excellent gloss, clarity and flow, combined with its balance of rigidity and impact, this grade is particularly suitable for injection molding. Potential end use applications include housewares and Injection Stretch Blow Moulding (ISBM) of bottles.			
Hanwha Total PP HJ730	<p>Description</p> <p>HJ730 is a highly isotactic Homo PP(HIPP) with high crystal-line properties compared to normal Homo PP. The product's crystalline properties have enhanced its strength and heat resistance. HJ730 is highly useful for use in electrical/electronic appliances and high strength automobile parts which are exposed to lengthy periods of high temperatures.</p> <p>Characteristics</p> <p>Unique balance of flowability and impact resistance: processing of large scale parts</p> <ul style="list-style-type: none"> • High strength - thin injection molded products may be formed • Ultra-high heat resistance - high service temperature • High crystallinity - suitable for high speed processing • Good surface hardness - excellent scratch resistance • Good pigment dispersion - allows for dry coloring <p>Applications</p> <ul style="list-style-type: none"> • Home appliance such as coffee maker, kettle, etc 			
总览	YUPLENE® BX3500	Moplen EP647N	Moplen RP441N	Hanwha Total PP HJ730
生产商/供应商	• SK Global Chemical	• LyondellBasell Industries	• LyondellBasell Industries	• Hanwha Total Petrochemical Co., Ltd.
通用符号	• 抗撞击 PP 均聚物	• 抗撞击 PP 均聚物	• PP 无规共聚物	• PP 均聚物



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总览	YUPLENE® BX3500	Moplen EP647N	Moplen RP441N	Hanwha Total PP HJ730
添加剂	--		--	--
特性	<ul style="list-style-type: none"> • 结晶 • 良好刚性 • 良好抗撞击性 • 流动性高 • 耐热性，高 	<ul style="list-style-type: none"> • 高刚性 • 高光 • 抗冲共聚物 • 抗静电性 • 耐刮擦性 	<ul style="list-style-type: none"> • Good Rigidity • 高光 • 良好的流动性 • 良好的强度 • 良好抗撞击性 • 气味低到无 • 清晰度，高 • 无规共聚物 	<ul style="list-style-type: none"> • Good Hardness • 等规度高 • 高结晶 • 高强度 • 均聚物 • 抗划伤性高 • 良好的着色性 • 耐热性，高 • 食品接触的合规性
用途	<ul style="list-style-type: none"> • 薄壁部件 • 电池盒 • 电气/电子应用领域 • 工业应用 • 家电部件 • 汽车领域的应用 • 容器 	<ul style="list-style-type: none"> • 电器用具 • 家用货品 • 容器 • 体育用品 • 玩具 	<ul style="list-style-type: none"> • 家用货品 • 瓶子 • 容器 	<ul style="list-style-type: none"> • 电气/电子应用领域 • 电器用具 • 汽车领域的应用
机构评级	--	--	--	• FDA 21 CFR 177.1520
形式	--	• 粒子	• 粒子	--
加工方法	• 注射成型	• 注射成型	• Injection Stretch Blow Molding • 注射成型	• 注射成型



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物理性能	YUPLENE® BX3500	Moplen EP647N	Moplen RP441N	Hanwha Total PP HJ730	单位制	测试方法
密度 / 比重						
--	--	0.900	0.900	--	g/cm ³	ASTM D792
--	--	--	--	0.910	g/cm ³	ASTM D1505
熔速率 (熔体流动速率) (230°C/2.16 kg)	10	10	10	20	g/10 min	ASTM D1238
Spiral Flow	80.0	--	--	--	cm	内部方法
机械性能	YUPLENE® BX3500	Moplen EP647N	Moplen RP441N	Hanwha Total PP HJ730	单位制	测试方法
抗张强度 (屈服)	32.4	29.4	33.3	36.3	MPa	ASTM D638
伸长率						ASTM D638
屈服	--	7.0	8.0	--	%	
断裂	300	--	--	200	%	
弯曲模量	1670	1570	1370	1670	MPa	ASTM D790
冲击性能	YUPLENE® BX3500	Moplen EP647N	Moplen RP441N	Hanwha Total PP HJ730	单位制	测试方法
悬壁梁缺口冲击强度						ASTM D256
-20°C	59	49	20	--	J/m	
23°C	98	88	54	29	J/m	
硬度	YUPLENE® BX3500	Moplen EP647N	Moplen RP441N	Hanwha Total PP HJ730	单位制	测试方法
洛氏硬度 (R 级)	100	98	98	105		ASTM D785
热性能	YUPLENE® BX3500	Moplen EP647N	Moplen RP441N	Hanwha Total PP HJ730	单位制	测试方法
载荷下热变形温度 (0.45 MPa, 未退火)	--	125	104	120	°C	ASTM D648
维卡软化温度	155	--	--	--	°C	ASTM D1525
Heat Deflection Temperature	135	--	--	--	°C	ASTM D648
老化	YUPLENE® BX3500	Moplen EP647N	Moplen RP441N	Hanwha Total PP HJ730	单位制	测试方法
Oven Aging	15.0	--	--	--	day	ASTM D3012
光学性能	YUPLENE® BX3500	Moplen EP647N	Moplen RP441N	Hanwha Total PP HJ730	单位制	测试方法
雾度	--	--	18.0	--	%	ASTM D1003

