

Technical Data				
产品说明				
Thermylene® P-20TC-5100	PP-TD20 20% Talc Reinforcement			
Hostacom M2 R19 L	Hostacom M2 R19 L is a 25% talc filled PP copolymer. Product is UL Listed. This grade is delivered in customer customized colors, this Data Sheet is giving general properties, some of them may be slightly altered upon color selected. This grade is not intended for medical, pharmaceutical, food, drinking water and all applications not listed in the supported list. For more information please contact our sales representatives.			
Hifax EKC 112X	Hifax EKC 112X is a 20% talc filled PP copolymer, with high stiffness, very good impact resistance, low CLTE (Coefficient of Linear Thermal Expansion) and good paintability. This grade is delivered in customer customized colors, this Data Sheet is giving general properties, some of them may be slightly altered upon color selected			
Hanwha Total PP TB52	Description			
	Manufactured by adding an inorganic filler, talc to polypropylene, Hanwha Total' s heat-resistant PP compounds are designed for use in injection molding, and feature highly improved strength and heat-resistance. Produced with a variety of base PPs, such as HIPP (High Isotactic or High Crystalline Polypropylene), Hanwha Total' special processing technology results in PP of the highest quality. These products feature superior rigidity and impact strength, long-term heat resistance and anti-static property. Dimensional stability is another plus! These Hanwha Total products are widely used in electric and electronic parts, household appliances and automobiles.			
	Characteristics			
	• Addition of an inorganic filler, talc enhances heat-resistance and dimensional stability; • Superior strength and impact-resistance; • Superior processability.			
	Applications			
	• Electric/electronic products • Dish washer and microwave oven parts such as doors, air covers, air ducts; • Washing machines parts (such as balances), and TV speaker cabinets; • Household goods such as food containers.			
总体	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52
生产商/供应商	• Asahi Kasei Plastics North America Inc.	• LyondellBasell Industries	• LyondellBasell Industries	• Hanwha Total Petrochemical Co., Ltd.
通用符号	• PP , 未指定	• PP 共聚物	• PP 共聚物	• TPO
材料状态	• 已商用：当前有效	• 已商用：当前有效	• 已商用：当前有效	• 已商用：当前有效



总体	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52
资料 ¹	Technical Datasheet (English)	- Processing - Extrusion (English) - Processing - Injection Molding (English) - Processing - Mold Shrink (English) - Technical Datasheet (English)	- Processing - Extrusion (English) - Processing - Injection Molding (English) - Processing - Mold Shrink (English) - Technical Datasheet (English)	Technical Datasheet (English)
UL 黄卡 ²	--	E31765-230632	--	E140331-222954
搜索 UL 黄卡	Asahi Kasei Plastics North America Inc.	- LyondellBasell Industries - Hostacom	- LyondellBasell Industries - Hifax	Hanwha Total Petrochemical Co., Ltd.
供货地区	- 北美洲 - 非洲和中东 - 拉丁美洲 - 欧洲 - 亚太地区	欧洲	欧洲	- 北美洲 - 亚太地区
填料/增强材料	滑石填料, 20% 填料按重量	滑石填料, 25% 填料按重量	滑石填料, 20% 填料按重量	滑石填料
特性	--	共聚物	- 低 CLTE - 刚性, 高 - 共聚物 - 抗撞击性, 良好 - 可喷涂的	- Excellent Processability - 尺寸稳定性良好 - 刚性, 高 - 高强度 - 抗静电性 - 抗撞击性, 高 - 耐热性, 高
用途	--	大型家用电器和小型家用电器	- 汽车防撞杆 - 汽车领域的应用 - 汽车外部装饰	- 电气/电子应用领域 - 电气元件 - 电器用具 - 家用货品 - 汽车领域的应用 - 食品容器
汽车要求	- CHRYSLER MS-DB-500 CPN 2347 - CHRYSLER MS-DB-500 CPN 3349 - FORD ESH-M4D293-B - FORD WSK-M4D729-A1 - GM GMP.PP.008 Color: BK711 -- Black - GM GMP.PP.131 Color: Black - GM GMP.PP.131 Color: Natural - GM GMW16528P-PP-TD20	--	- GM GMW15702-010961 PP +EPDM-M20 Color: Black - IMDS ID 19524190 Color: Black	--
外观	--	可用颜色	可用颜色	--



总体	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52		
加工方法	--	• 注射成型	• 注射成型	• 注射成型		
物理性能	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52	单位制	测试方法
密度						
--	1.07	--	--	--	g/cm³	ISO 1183/A
23°C	--	1.07	1.03	--	g/cm³	ISO 1183/A
--	--	--	--	1.04	g/cm³	ASTM D1505
熔流率 (熔体流动速率)						
230°C/2.16 kg	--	--	--	11	g/10 min	ASTM D1238
230°C/2.16 kg	6.0	5.0	6.0	--	g/10 min	ISO 1133
熔融体积流量 (MVR) (230°C/2.16 kg)	--	5.00	--	--	cm³/10min	ISO 1133
收缩率 - 流动 (2.00 mm)	--	--	--	1.0 到 1.4	%	内部方法
机械性能	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52	单位制	测试方法
拉伸模量 (23°C)	--	2500	--	--	MPa	ISO 527-2
抗张强度						
屈服 ⁴	--	--	--	34.3	MPa	ASTM D638
屈服, 23°C	--	27.0	17.0	--	MPa	ISO 527-2
--	32.0	--	--	--	MPa	ISO 527-2
伸长率						
断裂 ⁴	--	--	--	60	%	ASTM D638
断裂	--	> 20	--	--	%	ISO 527-2
断裂, 23°C	--	--	75	--	%	ISO 527-2
弯曲模量						
-- ⁵	--	--	--	2450	MPa	ASTM D790
--	2800	--	--	--	MPa	ISO 178
23°C ⁶	--	2500	1800	--	MPa	ISO 178/A
弯曲应力	49.0	--	--	--	MPa	ISO 178



冲击性能	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52	单位制	测试方法
简支梁缺口冲击强度						
--	2.9	--	--	--	kJ/m²	ISO 179
-30°C	--	--	9.0	--	kJ/m²	ISO 179/1eA
0°C	--	2.5	--	--	kJ/m²	ISO 179/1eA
23°C	--	5.0	42	--	kJ/m²	ISO 179/1eA
简支梁无缺口冲击强度						ISO 179/1eU
0°C	--	38	--	--	kJ/m²	
23°C	--	65	--	--	kJ/m²	
悬壁梁缺口冲击强度						
23°C	--	--	--	49	J/m	ASTM D256
--	4.0	--	--	--	kJ/m²	ISO 180/A
硬度	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52	单位制	测试方法
洛氏硬度 (R 级)	--	--	--	93		ASTM D785
热性能	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52	单位制	测试方法
载荷下热变形温度						
0.45 MPa, 未退火	--	--	--	139	°C	ASTM D648
0.45 MPa, 未退火	128	115	--	--	°C	ISO 75-2/B
1.8 MPa, 未退火	70.0	62.0	--	--	°C	ISO 75-2/A
维卡软化温度	--	70.0	--	--	°C	ISO 306/B
可燃性	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52	单位制	测试方法
UL 阻燃等级	--	--	--	HB		UL 94
注射	Thermylene® P-20TC-5100	Hostacom M2 R19 L	Hifax EKC 112X	Hanwha Total PP TB52	单位制	
料筒后部温度	--	--	--	180 到 200	°C	
料筒中部温度	--	--	--	190 到 210	°C	
料筒前部温度	--	--	--	200 到 220	°C	
模具温度	--	--	--	50 到 80	°C	
注塑压力	--	--	--	39.2 到 88.3	MPa	
保压	--	--	--	58.8 到 98.1	MPa	
螺杆转速	--	--	--	30 到 80	rpm	



备注

- ¹ 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。
- ² UL 黄卡含有 UL 验证的易燃性和电气特性。UL Prospector 持续努力在 Prospector 中将黄卡链接至单个塑料材料，然而此列表可能未包括所有相应链接。重要的是，我们对 Prospector 中找到的这些黄卡和塑料材料之间的关联进行验证。如需完整的黄卡列表，请访问 UL 黄卡搜索。
- ³ 一般属性：这些不能被视为规格。
- ⁴ 50 mm/min
- ⁵ 5.0 mm/min
- ⁶ 1.0 mm/min



购买地点	
供应商	
Thermylene® P-20TC-5100	Asahi Kasei Plastics North America Inc. Fowlerville, MI USA 电话: 517-223-2000 Web: http://www.akplastics.com/
Hostacom M2 R19 L	LyondellBasell Industries Wilmington, DE USA 电话: 713-309-7200 Web: http://polymers.lyondellbasell.com/portal/site/basell/
Hifax EKC 112X	LyondellBasell Industries Wilmington, DE USA 电话: 713-309-7200 Web: http://polymers.lyondellbasell.com/portal/site/basell/
Hanwha Total PP TB52	Hanwha Total Petrochemical Co., Ltd. Seoul, South Korea 电话: +82-2-3415-9408 Web: http://www.hanwha-total.com/



分销商

Thermylene® P-20TC-5100

Entec Polymers

电话: 800-375-5440

Web: <http://www.entecpolymers.com/>

供货地区: North America

Plastics Plus, Inc.

电话: 248-393-0300

Web: <http://www.plasplus.com/>

供货地区: North America

PolyOne Distribution*PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.*

电话: 800-894-4266

Web: <http://polyonedistribution.com/>

供货地区: Global

PolySource

电话: 866-558-5300

Web: <http://www.polysource.net/>

供货地区: North America

Resinal de México

电话: +52-55-5254-7600

Web: <http://resinal.mx/>

供货地区: Mexico

Hostacom M2 R19 L

ALBIS Plastic*ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.*

电话: +49-40-78105-0

Web: <http://www.albis.com/>

供货地区: Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Slovakia

ESSE International - OMYA*ESSE International - OMYA is a Pan European distribution company. Contact ESSE International - OMYA for availability of individual products by country.*

电话: +33-1-30-80-56-56

Web: <http://www.omya.com>

供货地区: Europe

Ultrapolymers*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*

电话: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

供货地区: Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Ireland, Macedonia, Netherlands, Romania, Serbia, Slovenia, Turkey, United Kingdom



Hifax EKC 112X

ALBIS Plastic*ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.***电话:** +49-40-78105-0**Web:** <http://www.albis.com/>**供货地区:** Algeria, Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hong Kong, Hungary, Ireland, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom**ESSE International - OMYA***ESSE International - OMYA is a Pan European distribution company. Contact ESSE International - OMYA for availability of individual products by country.***电话:** +33-1-30-80-56-56**Web:** <http://www.omya.com>**供货地区:** Europe**Ultrapolymers***Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.***电话:** +32-11-57-95-57**Web:** <http://www.ultrapolymers.com/>**供货地区:** Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United Kingdom

Hanwha Total PP TB52

CISKO Plastics (HK) Limited**电话:** +86-18027555338**Web:** <http://www.ciskoplas.en.ec21.com>**供货地区:** China