

Technical Data

Product Description

TOTAL Polystyrene Impact 3441	<p>TOTAL POLYSTYRENE 3441 is a high heat resistance, high stiffness high impact polystyrene for extrusion and injection molding applications. Due of its ideal balance of properties this grade is well suited for the production of articles requiring good dimension stability at high temperature and short cycle times.</p> <p>Applications</p> <ul style="list-style-type: none"> • TV Back Cover • Office Automation • Electrical and Electronic • Toy
SECCO HIPS-622	<p>HIPS622 retains good fluidity, mould release and excellent rigidity.</p> <p>POLYREX® PH-888G 是一种高抗冲聚苯乙烯产品,。它在北美洲、非洲和中东、拉丁美洲、欧洲或亚太地区有供货。</p> <p>特性包括:</p> <ul style="list-style-type: none"> • 阻燃/额定火焰 • 通过 ROHS 认证 • 高光泽度 • 耐冲击
POLYREX® PH-888G	<p>POLYREX® PH-88 是一种高抗冲聚苯乙烯产品,。它在北美洲、非洲和中东、拉丁美洲、欧洲或亚太地区有供货。</p> <p>特性包括:</p> <ul style="list-style-type: none"> • 阻燃/额定火焰 • 通过 ROHS 认证 • 耐冲击
POLYREX® PH-88	<p>POLYREX® PH-888H 是一种高抗冲聚苯乙烯产品,。它在北美洲、非洲和中东、拉丁美洲、欧洲或亚太地区有供货。</p> <p>特性包括:</p> <ul style="list-style-type: none"> • 阻燃/额定火焰 • 通过 ROHS 认证 • 耐热
POLYREX® PH-888H	<p>特性包括:</p> <ul style="list-style-type: none"> • 阻燃/额定火焰 • 通过 ROHS 认证 • 耐热

General	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H
Manufacturer / Supplier	• TOTAL Refining & Chemicals	• Shanghai SECCO Petrochemical Co., Ltd	• CHI MEI CORPORATION	• CHI MEI CORPORATION	• CHI MEI CORPORATION
Generic Symbol	• PS (HIPS)	• PS (HIPS)	• PS (HIPS)	• PS (HIPS)	• PS (HIPS)
Material Status	• 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	• 已商用 : 当前有效



General	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H
资料 ¹	<ul style="list-style-type: none"> Technical Datasheet (English) 	<ul style="list-style-type: none"> Technical Datasheet (English) 	<ul style="list-style-type: none"> Processing (English) Technical Datasheet - ASTM (Chinese) Technical Datasheet - ASTM (English) Technical Datasheet - ISO (English) 	<ul style="list-style-type: none"> Processing (English) Technical Datasheet - ASTM (Chinese) Technical Datasheet - ASTM (English) Technical Datasheet - ISO (English) 	<ul style="list-style-type: none"> Processing (English) Technical Datasheet - ASTM (Chinese) Technical Datasheet - ASTM (English) Technical Datasheet - ISO (English)
UL 黄卡 ²	<ul style="list-style-type: none"> E314268-100063392 E472299-102068889 	<ul style="list-style-type: none"> E255593-590553 	<ul style="list-style-type: none"> E56070-245788 E194560-566249 	<ul style="list-style-type: none"> E56070-245785 E194560-566247 	<ul style="list-style-type: none"> E56070-245789 E194560-566250
搜索 UL 黄卡	<ul style="list-style-type: none"> TOTAL Refining & Chemicals 	<ul style="list-style-type: none"> Shanghai SECCO Petrochemical Co., Ltd 	<ul style="list-style-type: none"> CHI MEI CORPORATION POLYREX® 	<ul style="list-style-type: none"> CHI MEI CORPORATION POLYREX® 	<ul style="list-style-type: none"> CHI MEI CORPORATION POLYREX®
Availability	<ul style="list-style-type: none"> 亚太地区 	<ul style="list-style-type: none"> 亚太地区 	<ul style="list-style-type: none"> 北美洲 非洲和中东 拉丁美洲 欧洲 亚太地区 	<ul style="list-style-type: none"> 北美洲 非洲和中东 拉丁美洲 欧洲 亚太地区 	<ul style="list-style-type: none"> 北美洲 非洲和中东 拉丁美洲 欧洲 亚太地区
Features	<ul style="list-style-type: none"> 尺寸稳定性良好 高刚性 高抗撞击性 快的成型周期 耐热性，高 	<ul style="list-style-type: none"> 良好的流动性 脱模性能良好 中等硬度 	<ul style="list-style-type: none"> 高光 高抗撞击性 	<ul style="list-style-type: none"> 高抗撞击性 	<ul style="list-style-type: none"> 耐热性，高
Uses	<ul style="list-style-type: none"> 电气/电子应用领域 电视外壳 商务设备 玩具 	<ul style="list-style-type: none"> 家电部件 外壳 	--	--	--
Agency Ratings	--	<ul style="list-style-type: none"> FDA 21 CFR 177.1640(c) 1 	--	--	--
RoHS Compliance	--	<ul style="list-style-type: none"> RoHS 合规 	<ul style="list-style-type: none"> RoHS 合规 	<ul style="list-style-type: none"> RoHS 合规 	<ul style="list-style-type: none"> RoHS 合规
Forms	<ul style="list-style-type: none"> 粒子 	--	--	--	--
Processing Method	<ul style="list-style-type: none"> 挤出 注射成型 	--	--	--	--
Resin ID (ISO 1043)	--	--	<ul style="list-style-type: none"> >PS-HI< 	<ul style="list-style-type: none"> >PS-HI< 	<ul style="list-style-type: none"> >PS-HI<



Physical	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H	单位制	测试方法
Density / Specific Gravity							
-- ⁴	--	--	1.05	1.05	1.05	g/cm ³	ASTM D792
--	1.04	1.04	--	--	--	g/cm ³	ISO 1183
23°C	--	--	1.03	1.03	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)							
200°C/5.0 kg	--	--	4.0	6.0	3.8	g/10 min	ASTM D1238
200°C/5.0 kg	5.0	4.5	--	--	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	--	--	4.00	5.50	3.80	cm ³ /10min	ISO 1133
Spiral Flow ⁵	48.0	--	--	--	--	cm	
Molding Shrinkage							
--	--	--	0.40 到 0.70	0.40 到 0.70	0.40 到 0.70	%	ISO 294-4
--	0.40 到 0.70	--	--	--	--	%	No Standard
24 小时	--	0.40 到 0.60	--	--	--	%	ISO 294-4
Water Absorption							ISO 62
饱和, 23°C	--	< 0.10	--	--	--	%	
平衡, 23°C, 50% RH	0.070	--	--	--	--	%	
Mechanical	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H	单位制	测试方法
Tensile Stress							
屈服	30.0	--	--	--	--	MPa	ISO 527-2
屈服	--	28.0	32.0	26.0	30.0	MPa	ISO 527-2/50
断裂 ⁶	--	--	31.3	23.5	29.4	MPa	ASTM D638
断裂	--	25.0	28.0	24.0	30.0	MPa	ISO 527-2/50
Tensile Elongation							
断裂 ⁶	--	--	30	40	45	%	ASTM D638
断裂	45	--	--	--	--	%	ISO 527-2
断裂	--	--	35	40	50	%	ISO 527-2/50
Nominal Tensile Strain at Break	--	45	--	--	--	%	ISO 527-2/50
Flexural Modulus							
-- ⁷	--	--	2070	1930	1930	MPa	ASTM D790
--	1900	--	--	--	--	MPa	ISO 178
-- ⁸	--	2100	2200	2100	1500	MPa	ISO 178



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Flexural Strength							
--7	--	--	46.0	37.2	44.1	MPa	ASTM D790
--8	--	48.0	48.0	37.0	39.0	MPa	ISO 178
Impact	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H	单位制	测试方法
Charpy Notched Impact Strength							
-30°C	--	--	5.5	6.5	5.2	kJ/m²	ISO 179
23°C	--	--	10	11	9.0	kJ/m²	ISO 179
23°C	--	12	--	--	--	kJ/m²	ISO 179/1eA
Notched Izod Impact							
23°C, 3.20 mm	--	--	93	98	97	J/m	ASTM D256
23°C, 6.40 mm	--	--	83	83	83	J/m	ASTM D256
--	11	--	--	--	--	kJ/m²	ISO 180
-30°C	--	--	5.0	6.0	4.5	kJ/m²	ISO 180/1A
23°C	--	--	10	11	8.0	kJ/m²	ISO 180/1A
Hardness	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H	单位制	测试方法
Rockwell Hardness							
L 计秤	--	--	65	60	63		ASTM D785
R 计秤	99	107	--	--	--		ISO 2039-2
Thermal	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H	单位制	测试方法
Deflection Temperature Under Load							
1.8 MPa, 未退火	--	--	82.0	80.0	82.0	°C	ASTM D648
1.8 MPa, 未退火	--	73.0	79.0	74.0	79.0	°C	ISO 75-2/A
1.8 MPa, 退火	--	--	97.0	94.0	97.0	°C	ASTM D648
1.8 MPa, 退火	--	--	95.0	89.0	96.0	°C	ISO 75-2/A
Vicat Softening Temperature							
--	--	--	102	98.0	102	°C	ASTM D1525 ⁹
--	100	--	102	96.0	102	°C	ISO 306/A50
--	--	--	92.0	90.0	92.0	°C	ISO 306/B50
--10	--	92.0	--	--	--	°C	ISO 306/B50
CLTE - 流动	--	--	4.0E-5 到 6.0E-5	4.0E-5 到 6.0E-5	4.0E-5 到 6.0E-5	cm/cm/°C	ISO 11359-2



Electrical	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H	单位制	测试方法
Surface Resistivity	> 1.0E+13	--	--	--	--	ohms	IEC 60093
Electric Strength	150	--	--	--	--	kV/mm	No Standard
Flammability	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H	单位制	测试方法
Flame Rating							UL 94
--	HB	HB	--	--	--		
1.5 mm	--	--	HB	HB	HB		
Injection	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H	单位制	
Drying Temperature	70	--	80	80	80	°C	
Drying Time	2.0	--	2.0 到 3.0	2.0 到 3.0	2.0 到 3.0	hr	
Rear Temperature	--	--	160 到 180	160 到 180	160 到 180	°C	
Middle Temperature	--	--	190 到 210	180 到 200	185 到 205	°C	
Front Temperature	--	--	185 到 205	180 到 200	185 到 205	°C	
Processing (Melt) Temp	< 240	--	--	--	--	°C	
Mold Temperature	--	--	40 到 70	40 到 70	40 到 70	°C	
Injection Pressure	--	--	--	--	4.90 到 6.86	MPa	
Holding Pressure	--	--	--	--	3.92 到 5.88	MPa	
Back Pressure	--	--	--	--	0.490 到 1.47	MPa	
Extrusion	TOTAL Polystyrene Impact 3441	SECCO HIPS-622	POLYREX® PH-888G	POLYREX® PH-88	POLYREX® PH-888H	单位制	
Drying Temperature	70	--	--	--	--	°C	
Drying Time	2.0	--	--	--	--	hr	
Melt Temperature	< 240	--	--	--	--	°C	



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 23°C

⁵ Melt Temperature: 220°C

⁶ 6.0 mm/min

⁷ 2.8 mm/min

⁸ 2.0 mm/min

⁹ 速率 A (50°C/h), 压力 1 (10N)

¹⁰ in Oil



购买地点

供应商	
TOTAL Polystyrene Impact 3441	TOTAL Refining & Chemicals Houston, TX USA 电话: 713-483-5000 Web: http://www.totalrefiningchemicals.com/
SECCO HIPS-622	Shanghai SECCO Petrochemical Co., Ltd Shanghai, China 电话: +86 21 5257 4688 Web: http://www.secco.com.cn/
POLYREX® PH-888G	CHI MEI CORPORATION Tainan County, Taiwan 电话: +886-6-266-3000 Web: http://www.chimeicorp.com/
POLYREX® PH-88	CHI MEI CORPORATION Tainan County, Taiwan 电话: +886-6-266-3000 Web: http://www.chimeicorp.com/
POLYREX® PH-888H	CHI MEI CORPORATION Tainan County, Taiwan 电话: +886-6-266-3000 Web: http://www.chimeicorp.com/



分销商

TOTAL Polystyrene Impact 3441	请联系供应商以便为 TOTAL Polystyrene Impact 3441 查找分销商
SECCO HIPS-622	请联系供应商以便为 SECCO HIPS-622 查找分销商
POLYREX® PH-888G	<p>A. Westensee und Partner Rohstoff GmbH 电话: +49-4171-8812-0 Web: http://www.awp-rohstoffe.de/ 供货地区: Germany</p> <p>AMP TUNISIA 电话: +216-52-27-21-73 Web: http://www.amp.fr/ 供货地区: Tunisia</p> <p>Biesterfeld Plastic GmbH <i>Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.</i> 电话: +49-40-32008-0 Web: http://www.biesterfeld-plastic.com/ 供货地区: Brazil, Tunisia</p> <p>Calsak Polymers 电话: 800-743-2595 Web: http://www.calsak.com/ 供货地区: North America</p> <p>Chase Plastic Services, Inc. <i>Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: http://www.chaseplastics.com/contact/locations</i> 电话: 800-232-4273 Web: http://www.chaseplastics.com/ 供货地区: North America</p> <p>Entec Polymers 电话: 800-375-5440 Web: http://www.entecpolymers.com/ 供货地区: North America</p>
POLYREX® PH-88	<p>A. Westensee und Partner Rohstoff GmbH 电话: +49-4171-8812-0 Web: http://www.awp-rohstoffe.de/ 供货地区: Germany</p> <p>AMP TUNISIA 电话: +216-52-27-21-73 Web: http://www.amp.fr/ 供货地区: Tunisia</p>



Biesterfeld Plastic GmbH

Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.

电话: +49-40-32008-0

Web: <http://www.biesterfeld-plastic.com/>

供货地区: Brazil, Tunisia

Calsak Polymers

电话: 800-743-2595

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

供货地区: North America

Chase Plastic Services, Inc.

Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>

电话: 800-232-4273

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

供货地区: North America

Entec Polymers

电话: 800-375-5440

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

供货地区: North America

POLYREX® PH-888H

A. Westensee und Partner Rohstoff GmbH

电话: +49-4171-8812-0

Web: <http://www.awp-rohstoffe.de/>

供货地区: Germany

AMP TUNISIA

电话: +216-52-27-21-73

Web: <http://www.amp.fr/>

供货地区: Tunisia

Calsak Polymers

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