

Technical Data

Product Description

TOTAL Polystyrene Impact 6540	<p>POLYSTYRENE IMPACT 6541 is an easy flowing, high impact polystyrene with a good balance of mechanical and thermal properties. This resin combines physical properties such as the flow necessary for large or complex mouldings, the impact resistance for good mechanical properties in thin wall sections and good thermal properties for articles subjected to elevated temperatures in use. The combination of properties also offers high productivity.</p> <p>Applications POLYSTYRENE IMPACT 6540 satisfies the requirements of a wide range of molding applications. Toys, television housings, food packaging, refrigerator, computer keyboards, office equipment, household items...</p>		
SECCO HIPS-622	<p>HIPS622 retains good fluidity, mould release and excellent rigidity.</p> <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>		
POLYREX® PH-88	<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 		

General	TOTAL Polystyrene Impact 6540	SECCO HIPS-622	POLYREX® PH-88
Manufacturer / Supplier	• TOTAL	• Shanghai SECCO Petrochemical Co., Ltd	• CHI MEI CORPORATION
Generic Symbol	• 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
资料 ¹	• Technical Datasheet (English)	• Technical Datasheet (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	• E72824-456042	• E255593-590553	<ul style="list-style-type: none"> • E56070-245785 • E194560-104029001
搜索 UL 黄卡	• TOTAL	• Shanghai SECCO Petrochemical Co., Ltd	<ul style="list-style-type: none"> • CHI MEI CORPORATION • POLYREX®
Availability	• 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"> • 高抗撞击性 • 良好的流动性 • 食品接触的合规性 	<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"> • 高抗撞击性



General	TOTAL Polystyrene Impact 6540	SECCO HIPS-622	POLYREX® PH-88
Uses	<ul style="list-style-type: none"> • 电脑组件 • 电器用具 • 电视外壳 • 家用货品 • 商务设备 • 食品包装 • 玩具 	<ul style="list-style-type: none"> • 家电部件 • 外壳 	--
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1640(c) 1	--
RoHS Compliance	• RoHS 合规	• RoHS 合规	• RoHS 合规
Forms	• 粒子	--	--
Resin ID (ISO 1043)	--	--	• >PS-HI<

Physical	TOTAL Polystyrene Impact 6540	SECCO HIPS-622	POLYREX® PH-88	单位制	测试方法
Density / Specific Gravity					
-- ⁴	--	--	1.05	g/cm ³	ASTM D792
--	1.04	1.04	--	g/cm ³	ISO 1183
23°C	--	--	1.03	g/cm ³	ISO 1183
Apparent (Bulk) Density	0.60	--	--	g/cm ³	No Standard
Melt Mass-Flow Rate (MFR)					
200°C/5.0 kg	--	--	6.0	g/10 min	ASTM D1238
200°C/5.0 kg	12	4.5	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	--	--	5.50	cm ³ /10min	ISO 1133
Molding Shrinkage					
--	--	--	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	< 0.10	--	--	%	



Mechanical	TOTAL Polystyrene Impact 6540	SECCO HIPS-622	POLYREX® PH-88	单位制	测试方法
Tensile Stress					
屈服	25.0	--	--	MPa	ISO 527-2
屈服	--	28.0	26.0	MPa	ISO 527-2/50
断裂 ⁵	--	--	23.5	MPa	ASTM D638
断裂	20.0	--	--	MPa	ISO 527-2
断裂	--	25.0	24.0	MPa	ISO 527-2/50
Tensile Elongation					
断裂 ⁵	--	--	40	%	ASTM D638
断裂	45	--	--	%	ISO 527-2
断裂	--	--	40	%	ISO 527-2/50
Nominal Tensile Strain at Break	--	45	--	%	ISO 527-2/50
Flexural Modulus					
-- ⁶	--	--	1930	MPa	ASTM D790
--	2100	--	--	MPa	ISO 178
-- ⁷	--	2100	2100	MPa	ISO 178
Flexural Strength					
-- ⁶	--	--	37.2	MPa	ASTM D790
-- ⁷	--	48.0	37.0	MPa	ISO 178
Impact					
Charpy Notched Impact Strength					
-30°C	--	--	6.5	kJ/m ²	ISO 179
23°C	--	--	11	kJ/m ²	ISO 179
23°C	--	12	--	kJ/m ²	ISO 179/1eA
Notched Izod Impact					
23°C, 3.20 mm	--	--	98	J/m	ASTM D256
23°C, 6.40 mm	--	--	83	J/m	ASTM D256
--	9.5	--	--	kJ/m ²	ISO 180/1A
-30°C	--	--	6.0	kJ/m ²	ISO 180/1A
23°C	--	--	11	kJ/m ²	ISO 180/1A
Hardness					
Rockwell Hardness					
L 计秤	--	--	60		ASTM D785
R 计秤	78	107	--		ISO 2039-2



Thermal	TOTAL Polystyrene Impact 6540	SECCO HIPS-622	POLYREX® PH-88	单位制	测试方法
Deflection Temperature Under Load					
1.8 MPa, 未退火	--	--	80.0	°C	ASTM D648
1.8 MPa, 未退火	68.0	73.0	74.0	°C	ISO 75-2/A
1.8 MPa, 退火	--	--	94.0	°C	ASTM D648
1.8 MPa, 退火	80.0	--	89.0	°C	ISO 75-2/A
Vicat Softening Temperature					
--	--	--	98.0	°C	ASTM D1525 ⁸
--	92.0	--	96.0	°C	ISO 306/A50
--	83.0	--	90.0	°C	ISO 306/B50
-- ⁹	--	92.0	--	°C	ISO 306/B50
CLTE - 流动					
--	--	--	4.0E-5 到 6.0E-5	cm/cm/°C	ISO 11359-2
--	9.1E-5	--	--	cm/cm/°C	No Standard
Electrical	TOTAL Polystyrene Impact 6540	SECCO HIPS-622	POLYREX® PH-88	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 6540	SECCO HIPS-622	POLYREX® PH-88	单位制	测试方法
Flame Rating					UL 94
--	--	HB	--		
1.5 mm	--	--	HB		
Injection	TOTAL Polystyrene Impact 6540	SECCO HIPS-622	POLYREX® PH-88	单位制	
Drying Temperature	--	--	80	°C	
Drying Time	--	--	2.0 到 3.0	hr	
Rear Temperature	--	--	160 到 180	°C	
Middle Temperature	--	--	180 到 200	°C	
Front Temperature	--	--	180 到 200	°C	
Mold Temperature	--	--	40 到 70	°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 6.0 mm/min

⁶ 2.8 mm/min

⁷ 2.0 mm/min

⁸ 速率 A (50°C/h), 压力 1 (10N)

⁹ in Oil



购买地点

供应商	
TOTAL Polystyrene Impact 6540	TOTAL Houston, TX USA 电话: 800-344-3462 (US); +33-1-47-44-45-46 (EU) Web: https://www.polymers.total.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-88	CHI MEI CORPORATION Tainan County, Taiwan 电话: +886-6-266-3000 Web: http://www.chimeicorp.com/



分销商

TOTAL Polystyrene Impact 6540

GAZECHIM PLASTIQUES

GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.

电话: +33-4-67-49-55-37

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

供货地区: Denmark, Finland, Norway, Sweden

Plastribution

电话: +44-845-345-4560

Web: <http://www.plastribution.co.uk/>

供货地区: United Kingdom

SECCO HIPS-622

POLYREX® PH-88

请联系供应商以便为 SECCO HIPS-622 查找分销商

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

Biesterfeld

Biesterfeld is a Pan European distribution company. Contact Biesterfeld 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

