



TOTAL
道达尔

聚苯乙烯 Polystyrene

透明 / 高抗冲
Compact





基本信息 General Information

标准性能 Standard properties

除非另有说明，所有测试在摄氏 23 度下进行。机械性能是通过注塑试样测定。

All the tests are carried out at 23°C unless otherwise stated. Mechanical properties are measured on injection moulded test specimens.



模塑收缩率 Mould shrinkage

道达尔的聚苯乙烯收缩率为 0.4 – 0.7%。
Shrinkage of Total Polystyrene is 0.4 – 0.7%.

密度 Density

所有牌号未经染色产品的密度大约为 1.04 克 / 立方厘米。
Density of all unpigmented grades is approximately 1.04g / cm³.



容积密度 Bulk density

所有牌号本色产品的容积密度大约为 0.6 克 / 立方厘米。
Bulk density of all natural grades is approximately 0.6g / cm³.

食品接触 Food contact

销售到食品接触应用当中所有牌号的聚苯乙烯的成分，绝对符合欧洲各国、美国等有关食品包装材料的现行条例。但用户仍有责任核实其最终成品符合这些条例。

The composition of PS grades sold for food contact applications conforms with the current regulations in the various European countries, and the USA, for packaging to be used in contact with foodstuffs.

It remains the responsibility of the user to verify that the finished product also complies with these regulations.



聚苯乙烯改性料 Specialities / compounds

除了通用聚苯乙烯和高抗冲聚苯乙烯外，道达尔还提供一系列含卤素的阻燃聚苯乙烯改性料，主要用于消费类电子产品，尤其是电视机前、后壳，此外也提供聚苯乙烯与其他聚合物共混合金属材料。如想了解更多详细信息，请与我们的销售代表联系。

A range of compounded products is available: flame retardant grades and halogenated for consumer goods applications (in particular for TV front and back covers) and polystyrene alloy. Please contact our commercial department for more specific information.



UL 认证号码 UL number

E314268

互联网 Internet

所有牌号的性能包括工艺参数请浏览我们的网页：

www.totalrefiningchemicals.com

All of the properties of the grades, in addition to processing data, can be found on our website : www.totalrefiningchemicals.com



高抗冲聚苯乙烯 Polystyrene Impact

物性描述 Description Properties*	牌号 Grade	产地 Production Site	阻燃级别 Flammability	热熔指数 Melt Flow Index	维卡软化点 Vicat Temperature	热变形温度 Heat Distortion Temperature	冲击强度 IZOD Impact Strength	拉伸屈服强度 Tensile Strength at Yield	断裂伸长率 Elongation at Break	弯曲模量 Flexural Modulus	密度 Density	挤出 Extrusion	注塑 Injection	主要用途 Typical Applications
			Class	g/10min	deg C	deg C	kJ/m ²	MPa	%	MPa	g/cm ³			
			UL 94	ISO 1133	ISO 306	ISO 75	ISO 180	ISO 527	ISO 527	ISO 178	ISO 1183			
高耐热性、高刚性 High Heat Resistance, High Rigidity	2551	S'pore & China	HB	6	100	82	7.5	33	40	2500	1.04		•	音响设备、电子电器 Audio, Electrical and Electronic
高分子量、中度耐环境应力开裂 High Molecular Weight, Medium ESCR	3241	S'pore	-	2	103	85	10	33	45	2300	1.04	•		食品包装、耐低温冲击及化学腐蚀 Food Packaging, Improved Cold Impact Strength and Chemical Resistance
高延展性 High Ductility	3341	S'pore	-	3	100	80	11.5	32	45	2300	1.04	•		热塑成型片材、食品包装、电子包装 Sheet for Thermoforming, Food Packaging, Electronics Packaging
高耐热性 High Heat Resistance	3351	S'pore & China	HB	8	98	80	9.5	31	40	2350	1.04		•	电视机壳、办公用品、电子电器、家居用品 TV Cover, Office Automation, Electrical and Electronic, Household
高耐热性 High Heat Resistance	3441	China	HB	5	99	81	10.5	29	65	2100	1.04		•	电视机壳、办公用品、电子电器、玩具 TV Cover, Office Automation, Electrical and Electronic, Toy
高延展性 High Ductility	4241	China	HB	4	96	80	11.5	27	70	2150	1.04	•	•	热塑成型片材、家居用品 Sheet for Thermoforming, Household
高流动性 High Flow	4440	S'pore & China	HB	9	97	78	10.5	29	40	2250	1.04		•	电视机壳、办公用品、电子电器 TV Cover, Office Automation, Electrical and Electronic
高光泽 High Gloss	6351	China	HB	3.5	100	82	10.5	32	55	2000	1.04		•	空调、办公用品、电子电器、玩具 Air Con, Office Automation, Electrical and Electronic, Toy
耐环境应力开裂 Environmental Stress Crack Resistance (ESCR)	8265	S'pore & China	HB	3.5	99	81	12	27	75	1700	1.04	•		冰箱, 有耐环境应力开裂要求的挤板 Fridge, Extrusion Sheet Requiring High ESCR Properties

透明聚苯乙烯 Polystyrene Crystal

物性描述 Description Properties*	牌号 Grade	产地 Production Site	阻燃级别 Flammability	热熔指数 Melt Flow Index	维卡软化点 Vicat Temperature	热变形温度 Heat Distortion Temperature	冲击强度 IZOD Impact Strength	拉伸屈服强度 Tensile Strength at Yield	断裂伸长率 Elongation at Break	弯曲模量 Flexural Modulus	密度 Density	挤出 Extrusion	注塑 Injection	主要用途 Typical Applications
			Class	g/10min	deg C	deg C	kJ/m ²	MPa	%	MPa	g/cm ³			
			UL 94	ISO 1133	ISO 306	ISO 75	ISO 180	ISO 527	ISO 527	ISO 178	ISO 1183			
水色、高分子量、高耐热 Ice Color, High Mw, High Heat Resistant	1050	S'pore & China	HB	2.8	103	87	10	55	2	3100	1.04	•	•	高耐热热塑成型产品、发泡挤出品 High Heat Resistant Thermoformed Products, Foam Extrusion
水色, 高分子量, 高耐热 Ice Color, High Mw, High Heat Resistance	1070	China	HB	1.7	105	-	11	58	2	3300	1.04	•	•	BOPS, 背光模组光扩散板, 高耐热热塑成型产品 BOPS / Thin film, Light Diffusion Plate, High Heat Resistant Thermoformed Products
水色, 高分子量, 易流动 Ice Color, High Mw, Easy Flow	1240	China	HB	3	96	-	10	48	2	2840	1.04	•	•	冰箱部件, SAN料替代 Fridge parts, SAN replacement
易流动 Easy Flow	1441	China	-	8	97	80	7	45	2	3050	1.04		•	餐具、家居用品、玩具 Cutlery, Household, Toy
易流动 Easy Flow	1450	S'pore	-	5	103	85	8	50	2	3300	1.04	•	•	挤出板材、发泡挤出品、家居用品 Extrusion Sheet, Foam Extrusion, Household
高流动 High Flow	1540	S'pore & China	HB	12	91	75	7.5	45	2	3300	1.04		•	餐具、珠宝盒、玩具 Cutlery, Jewel Box, Toy

* 所有数值均按照道达尔标准方式检测
All properties are measured at Total RC Laboratory following standard procedures
** 5VA @ 2.5mm



聚苯乙烯市场的国际领先者

道达尔是全球聚苯乙烯的主要生产商，工厂遍及欧洲、亚洲和美国。在中国，道达尔除了位于佛山的 20 万吨 / 年工厂之外，现正于宁波投资 20 万吨年产能生产线。集团积极为客户提供优越的技术支持，协助其发展业务。

聚苯乙烯是现今日常生活不可或缺的塑料，能广泛应用于包装、家居电器及电子产品。道达尔聚苯乙烯技术，可生产**通用聚苯乙烯**（高刚性和透明，可应用于硬质包装、工业片材和隔热板材等）以及**高抗冲聚苯乙烯**（一般是坚硬有色塑料，可应用于乳制品包装、电子产品和冷箱等）。

道达尔拥有超过 45 年聚苯乙烯生产、研发和销售的国际经验，能为中国市场提供卓越的优质聚合产品生产技术，满足多方面的不同应用。

Polystyrene Market Leader Worldwide

Total is a major worldwide producer of polystyrene with global production facilities in Europe, Asia and the United States. In China, in addition to the Foshan plant with a capacity of 200kTa, Total is investing in Ningbo a new line of 200kTa. Total is dedicated to support its customers for their business growth by providing the advantaged technical service assistance.

Polystyrene, a standard plastic indispensable to daily life in today's world, is principally used in packaging, domestic appliances and electronics. The Total polystyrene technology produces both **general purpose polystyrene**, which is a rigid and transparent material used in applications such as rigid packaging, industrial sheets and insulation, and **high impact polystyrene**, which is generally a tough coloured plastic used, for example, for dairy packaging, electronics and refrigeration applications.

With more than 45 years of polystyrene worldwide manufacturing, R&D, and sales experiences, Total provides the Chinese market with a state-of-art technology to produce superior performance polymers well suited for a wide range of applications.



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道达尔

世界大型石油、天然气、化工一体化企业

道达尔是全球大型上下游一体化能源公司之一，业务遍布130多个国家，涉及整个能源链上下游多个环节，共分为三大主要板块：**上游**（勘探与生产、天然气与电力），**炼油与化工**（炼油与化工、交易与船务），以及**营销与服务**（营销与服务、新能源）。安全、道德、社会责任、环保以及提供创新解决方案，是集团落实高效运营、让客户受惠的基础。

Total

an integrated oil, gas and chemicals world major

Total is one of the world's biggest global and integrated energy companies. The Group operates in more than 130 countries and across the entire energy value chain through its three business segments: **Upstream** (Exploration & Production; Gas & Power), **Refining & Chemicals** (Refining & Chemicals; Trading & Shipping), and **Marketing & Services** (Marketing & Services; New Energies). Safety, ethics, social responsibility, environmental protection and innovations are the cornerstones for the Group's operations excellence goals as well as meeting the customers' needs.

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