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聚苯乙烯 Polystyrene

中国地区牌号以及典型应用
Chinese Grades
and typical applications

TOTAL PETROCHEMICALS



道达尔石化

世界大型石化企业

道达尔石化是全球大型石化生产商之一，结合了道达尔集团的石化业务：基础化工以及其相关的聚合物（聚乙烯、聚丙烯和聚苯乙烯）。

道达尔石化拥有超过6,250名员工，业务遍及欧洲、美国、中东及亚洲。公司的产品广泛应用于多个消费品及工业市场，包括：包装、建筑和汽车等。

作为道达尔集团旗下的公司，道达尔石化享有与集团多项业务协同运作的强大优势，尤其是集团在欧洲和美国的炼油业务以及在中东的勘探与生产业务。公司目前是中东使用乙烷进料制造乙烯的主要生产商。为持续发展业务，道达尔石化采取的战略是加强欧洲和美国工厂的竞争力、提升在亚洲的地位，以及发展能受惠于原料地理优势的项目（例如卡塔尔和阿尔及利亚的乙烷）或发展能受惠于与炼油业务协同效益的项目（未来位于朱拜勒炼油厂的芳烃装置）。

Total Petrochemicals

a Petrochemicals World Major

Total Petrochemicals, one of the world's leading petrochemicals producers, brings together the petrochemicals activities of the Total Group: base chemicals and their related polymers (polyethylene, polypropylene and polystyrene).

With about 6,250 employees worldwide, Total Petrochemicals is present in Europe, the United States, the Middle East and Asia. Its products serve numerous consumer and industrial markets, including packaging, construction and the car industry.

As part of the Total Group, Total Petrochemicals draws on strong synergies with Total's refining business, particularly in Europe and the United States, as well as with its exploration and production segment, mainly in the Middle East where is now a major ethylene producer using ethane feedstock. To ensure ongoing development, Total Petrochemicals pursues a strategy aimed at improving the competitiveness of its plants in Europe and the United States, at strengthening its position in Asia and at developing projects that benefit from a more favourable access to raw materials, such as ethane in Qatar and in Algeria, or strong synergies with refining (aromatics units on the site of the future Jubail refinery).



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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

道达尔石化的聚苯乙烯收缩率为 0.4 - 0.7%。

Shrinkage of Total Petrochemicals Polystyrene is 0.4 - 0.7%.

密度 Density

所有牌号未经染色产品的密度为 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，道达尔石化还提供一系列含卤素和不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合金材料。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, halogenated and halogen free, 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.totalpetrochemicals.com

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



透明聚苯乙烯 Polystyrene Crystal

物性描述 Description Properties*	牌号 Grade	阻燃级别 Flammability	熔融指数 Melt Flow Index	维卡软化点 Vicat Temperature	热变形温度 Heat Distortion Temperature	冲击强度 Unnotched Izod Impact Strength	屈服拉伸强度 Tensile Strength at Break
单位 Units		Class	g/ 10 min	deg C	deg C	kJ/ m ²	MPa
测试方法 Test Method	ASTM	UL 94	D-1238	D-1525	D-648	D-256	D-638
高分子量, 高耐热 High Molecular Weight, High Heat Resistance	1050	HB	2.8	103	82	2.5	50
易流动 Easy Flow	1441	HB	6	97	77	2	45

抗冲击聚苯乙烯 Polystyrene impact

物性描述 Description Properties*	牌号 Grade	阻燃级别 Flammability	熔融指数 Melt Flow Index	维卡软化点 Vicat Temperature	热变形温度 Heat Distortion Temperature	冲击强度 Notched Izod Impact Strength	屈服拉伸强度 Tensile Strength at Yield
单位 Units		Class	g/ 10 min	deg C	deg C	kJ/ m ²	MPa
测试方法 Test Method	ASTM	UL 94	D-1238	D-1525	D-648	D-256	D-638
中流动 Standard Flow	3441	HB	5	99	76	10.5	29
高延展性 High Ductility	4241	HB	4	96	75	11.5	27
高流动 High Flow	4440	HB	9.5	95	73	12	25
高光泽 High Gloss	6351	HB	3.5	100	77	10.5	32
耐环境应力开裂 ESCR	8265	HB	3.5	98	75	11.5	22

* 所有性能都是道达尔石化佛山实验室根据标准质量控制程序进行测试。

All properties are measured at Total Petrochemicals Foshan's lab according to the standard procedures.



断裂伸长率 Elongation at Break	弯曲模量 Flexural Modulus	挤出 Extrusion	注塑 Injection	主要用途 Typical Applications
%	MPa			
D-638	D-790			
2	3100	•	•	冰箱, 发泡托盘, 透明杯子, 高耐热热塑成型产品 Fridge, Foamed Tray, Transparent Cup, High Heat Resistance Thermoformed Product
1.5	3050	•	•	餐具, 家居用品, 玩具 Cutlery, Household, Toy

断裂伸长率 Elongation at Break	弯曲模量 Flexural Modulus	挤出 Extrusion	注塑 Injection	主要用途 Typical Applications
%	MPa			
D-638	D-790			
65	2100		•	电视机壳, 打印机, 扫描仪, 空调 TV Cover, Printer, Scanner, Air-con
70	2150	•	•	热塑成型片材, 玩具, 家居用品 Sheets for Thermoforming, Toy, Household
75	1950		•	大屏幕电视机壳, 聚苯乙烯改性料 Large Size TV Cover, PS Compound
60	2000		•	空调 Air-conditioner
80	1500	•		冰箱 Fridge



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