

Styrolution PS 454N

High Impact Polystyrene
Styrolution Group GmbH



ides.com/prospector

Technical Data

Product Description

Styrolution PS 454N is an impact resistant polystyrene with a good balance of toughness, high flow, heat resistance and high gloss.

Applications

TV front panels and back covers. VCR fronts, internal parts for refrigerators, office and household articles. Vacuum cleaner housings, toilet flush, telephones, air conditioner housings, toys, coextruded gloss layer.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E108538-100840249
Search for UL Yellow Card	• Styrolution Group GmbH • Styrolution PS
Availability	• Europe
Features	• Good Toughness • High Flow • High Gloss • High Heat Resistance • High Impact Resistance
Uses	• Appliance Components • Housings • Television Housings • Toys • White Goods & Small Appliances
Forms	• Granules

Physical	Nominal Value Unit	Test Method
Density	1.05 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	14.0 cm ³ /10min	ISO 1133
Water Absorption		
Saturation, 23°C ⁴	< 0.10 %	ISO 62
Equilibrium, 23°C, 50% RH	< 0.10 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2200 MPa	ISO 527-2
Tensile Stress (Yield)	27.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
Yield	1.4 %	
Break	25 %	

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	16 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	120 kJ/m ²	
23°C	15 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	82.0 °C	ISO 306/B50
Melting Temperature	180 to 260 °C	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ Method A

Styrolution PS 454N

High Impact Polystyrene

Styrolution Group GmbH

Where to Buy

Supplier

Styrolution Group GmbH

, Germany

Telephone: +49-69-5095-501200

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

Distributor

ALBIS Plastic

ALBIS PLASTIC is a pan-European distribution and compounding company. Contact ALBIS PLASTIC for availability of individual products per country.

Telephone: +49-40-78105-0

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

Availability: Europe

Ultrapolymers

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

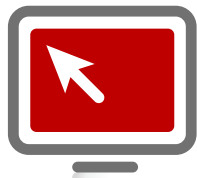
Telephone: +32-11-57-95-57

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

Availability: Europe



Founded in 1986 and based in Laramie, Wyoming, IDES is now part of the UL family of companies. UL is a premier global independent safety science company with more than a century of proven history. Employing nearly 10,000 professionals in over 100 countries, UL has five distinct business units -- Product Safety, Environment, Life & Health, Knowledge Services and Verification Services -- to meet the expanding needs of our customers and to deliver on our public safety mission.



Prospector Plastics Database - www.ides.com/prospector

Prospector is a searchable online database that includes 85,000 data sheets from 875 manufacturers and 44,000 UL yellow cards. Each data sheet includes property, processing and supplier contact information. Prospector is relied on by nearly 400,000 design engineers and plastics processors. Using Prospector, they save time with plastic material selection by quickly and easily referencing technical information critical to the success of their products.

"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"

– Birgit Elvardt Bader, Production Manager, Micotron

Power Searches

Property Search – select plastics by 500 key properties and design parameters.

Alternative Resins Search – find replacement plastics within minutes.

Automotive Plastics Search – easily locate automotive approved plastics.

Curve Data – view, overlay and export curve data.



Material Data Management – www.ides.com/datasheets

With our data management services, plastic suppliers and distributors can have custom search interfaces available on their website for their customers, website visitors, sales and customer service teams. These provide intuitive ways to find and view technical data sheets for their products.

"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."

– Kevin Chase, Owner & President, Chase Plastics



Advertising – www.ides.com/advertise

Reach 365,000 pre-qualified plastics professionals and generate leads with proven techniques. Electronic newsletter insertions, sponsored webinars and powerful online ads are available to make the most of your lead-generation program.

For more information, call: 800.788.4668 or 307.742.9227 ext. 220