

TECHNICAL DATA SHEET

RESIRENE Q-rPS® 25HI

HIGH IMPACT POLYSTYRENE (HIPS)

FEATURES

- High Viscosity
- High Impact
- High Productivity
- Easy to Process
- 55% Carbon Footprint reduction¹
- Contains 25% certified post-consumer PS
- FDA Rating: 21 CFR 177.1640²

APPLICATIONS

- Sheet Extrusion
- Deep Draw Thermoforming
- Blends with GPPS
- Cups and plates

TYPICAL PROPERTY VALUES

Physical	English	Value	SI	Value	Test Method
Melt Flow Rate (200°C/5.0 kg)	g/10 min	3	g/10 min	3	ASTM D1238
Density	lb/ft ³	65	g/cm ³	1.04	ASTM D792
Mechanical					
Break Elongation	%	52	%	52	ASTM D638
Tensile Strength, Break	psi	2,900	MPa	20	ASTM D638
Tensile Modulus (*) 0.2 in/min (5 mm/min)	kpsi	275	MPa	1,900	ASTM D638
Impact					
Notched Izod Impact (0.125in)	ft-lb _f /ft	2.0	J/m	107	ASTM D256
Thermal					
VICAT Softening Temperature (120°C/, 10 N)	°F	219	°C	104	ASTM D1525
Heat Deflection Temperature (264 psi unannealed)	°F	169	°C	76	ASTM D648

Properties reported in this data sheet are determined according to referred standard methods. Values shown represent averages from typical results measured in the laboratory and are provided only as a guide, not as specification limits.

EXTRUSION CONDITIONS

	°C	°F
Initial Zone	80	176
Feeding zone	180-190	356-374
Transport zone	190-200	374-392
Compression zone	200-210	392-410
Pumping zone	210-220	410-428
Melt	220	392



MINIMUM 25% RECYCLED CONTENT
POST-CONSUMER

¹ Comparing with virgin HIPS produced by Resirene.

² When the material is used without modifications for the manufacture of articles that come into contact with food, this product will comply with FDA Regulation 21 CFR 177.1640. The use of the article is subject to good manufacturing practices and any other limitations that are part of the regulation statute. It is necessary to consult the document for further details.

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ADDITIONAL INFORMATION

Warning

Combustion of this material may cause hazardous fumes and gases that may be dangerous to health, especially in enclosed places.

It should be noted that excessive heating or long residence time may cause degradation. Note: The data contained herein is provided for information purposes only. By providing such information, Resirene S.A de C.V. makes no guarantee and does not assume any liability concerning the accuracy or completeness of such information and the results obtained with this product in any specific instance; because of this, expressly disclaims all implied warranties of merchantability or fitness to a particular purpose. Nothing contained herein shall be constructed as a license to use the products of Resirene, S.A. de C.V in any manner that would infringe any patent.