

DIAREX THH103

General Purpose Polystyrene Resin

Special Characteristics: THH103 is the general purpose polystyrene with heat resistance and tensile strength. This grade is recommended for extrusion applications that need tensile and heat resistance properties.

Typical Applications: Packaging, stationary, PS foam sheet, oriented PS sheet

Typical Properties:

Properties	DIAREX THH103	Unit	Test Method
Physical Properties			
Melt Flow Rate (200 °C, 5 kg)	1.7	g/10 min	ASTM D1238
Density	1.05	g/cm ³	ASTM D792
Vicat Softening Point	107	°C	ASTM D1525
Deflection Temperature	82	°C	ASTM D648
Mechanical Properties			
Tensile Strength at Yield	7,700	lb/in ²	ASTM D638
Tensile Elongation	2.6	%	ASTM D638
Izod Impact Strength	0.4	ft.lb/in	ASTM D256
Rockwell Hardness	M80	Scale	ASTM D785
Underwriter Laboratory*	HB (1.5 mm)		UL-94

*Data based on injection molding test pieces.

Recommendation:

DIAREX THH103 can be processed with recommended temperature between 190 – 240 °C and melt temperature should not exceed 260 °C.

Note: Modifications of the processing conditions based on the variations of the product design and machine configuration.

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