

## DIAREX THH102

General Purpose Polystyrene Resin

**Special Characteristics:** THH102 is the general purpose polystyrene with balance flowability, strength, heat resistance, and good clarity. This grade is recommended for both extrusion and injection applications.

**Typical Applications:** Refrigerator accessories, Home appliance, Small appliances, Stationary

**Typical Properties:**

Properties	DIAREX THH102	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (200 °C, 5 kg)	2.6	g/10 min	ASTM D1238
Density	1.05	g/cm <sup>3</sup>	ASTM D792
Vicat Softening Point	106	°C	ASTM D1525
Deflection Temperature	81	°C	ASTM D648
<b>Mechanical Properties</b>			
Tensile Strength at Yield	7,500	lb/in <sup>2</sup>	ASTM D638
Tensile Elongation	2.5	%	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 THH102 can be processed with recommended temperature between 190 – 240 °C and mold temperatures between 30 and 70 °C. Melt temperature should not exceed 260 °C.

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

**Disclaimer:** To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however, we do not assume any liability what so ever for the accuracy and completeness of such information. We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

**Note :** Properties reported here are typical values of the product, not to be considered as specifications.  
GC makes no representations as to the accuracy or completeness of the information contained herein.