

## DIAREX THF77

General Purpose Polystyrene Resin

**Special Characteristics:** THF77 is the general purpose polystyrene with good flow and clarity which a specific balance of flow and strength. This grade is recommended for injection application.

**Typical Applications:** Refrigerator accessories, Home appliance, Small appliances, Food container, Cutlery, Stationary, Blending with HIPS

**Typical Properties:**

Properties	DIAREX THF77	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (200 °C, 5 kg)	8.4	g/10 min	ASTM D1238
Density	1.05	g/cm <sup>3</sup>	ASTM D792
Vicat Softening Point	101	°C	ASTM D1525
Deflection Temperature	78	°C	ASTM D648
<b>Mechanical Properties</b>			
Tensile Strength at Yield	6,700	lb/in <sup>2</sup>	ASTM D638
Tensile Elongation	1.6	%	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 THF77 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.

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