

# DIAREX H350E

High Impact Polystyrene Resin

**Special Characteristics:** H350E is high impact polystyrene with a balance of toughness, stiffness, flow, and heat resistance. This grade is suitable for all kinds of extrusion and thermoformed.

**Typical Applications:** Food container, Home appliance, Seeding tray

**Typical Properties:**

Properties	DIAREX H350E	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (200 °C, 5 kg)	2.6	g/10 min	ASTM D1238
Density	1.04	g/cm <sup>3</sup>	ASTM D792
Vicat Softening Point	101	°C	ASTM D1525
Deflection Temperature	76	°C	ASTM D648
<b>Mechanical Properties</b>			
Tensile Strength at Yield	4,000	lb/in <sup>2</sup>	ASTM D638
Tensile Elongation	53	%	ASTM D638
Flexural Strength	5,500	lb/in <sup>2</sup>	ASTM D790
Flexural Modulus (x10,000)	30	lb/in <sup>2</sup>	ASTM D790
Izod Impact Strength	2	ft.lb/in	ASTM D256
Rockwell Hardness	R112	Scale	ASTM D785
Underwriter Laboratory*	HB (1.5 mm)		UL-94

\*Data based on injection molding test pieces.

**Recommendation:**

DIAREX H350E 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.

# DIAREX

