DIAREX H350

High Impact Polystyrene Resin

Special Characteristics: H350 is high impact polystyrene grade with a balance flowability and mechanical properties which suitable for injection.

Typical Applications: Home appliance, Small appliance, Refrigerator accessories, Office automation, Stationary, Audio enclosure, Toys

Typical Properties:

Properties	DIAREX H350	Unit	Test Method
Physical Properties			
Melt Flow Rate (200 °C, 5 kg)	3.5	g/10 min	ASTM D1238
Density	1.04	g/cm^3	ASTM D792
Vicat Softening Point	104	°C	ASTM D1525
Deflection Temperature	78	°C	ASTM D648
Mechanical Properties			
Tensile Strength at Yield	4,250	lb/in^2	ASTM D638
Tensile Elongation	55	%	ASTM D638
Flexural Strength	6,000	lb/in^2	ASTM D790
Flexural Modulus (x10,000)	30	lb/in^2	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 H350 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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Revised Date: October 2025