

**ResMart Ultra HIPS 4.5-2** - High impact polystyrene for extrusion or injection molding applications

Technical Data Sheet Properties

Physical Property	Value	Test Method
Specific Gravity	1.03	ASTM D 792
Melt Flow Rate @ 200°C - 5kg	4.5 g/10 min	ASTM D 1238
Mold Shrinkage	0.3 - 0.6 %	ASTM D 955

Mechanical Property	Value	Test Method
Tensile Strength	4200 psi	ASTM D 638
Tensile Elongation	55 %	ASTM D 638
Flexural Strength	5000 psi	ASTM D 790
Flexural Modulus	248000 psi	ASTM D 790
Notched Izod Impact (0.125in)	2.0 ft-lbs/in	ASTM D 256

Thermal Property	Value	Test Method
HDT (264 psi) Unannealed	176 °F	ASTM D 648
Vicat Softening Point	208 °F	ASTM D 1525

Regulatory Compliance	Value
FDA Compliance	Yes
RoHS Compliance	Yes

Processing Guidelines	Value
Drying Temperature	180 °F
Drying Time	2 - 3 Hours
Melt Temperature	410 - 480 °F
Mold Temperature	100 - 150 °F

The information provided on this datasheet should only be used as a guideline. Actual lot to lot values will vary.

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