

ColorFast® FRHIPS

Americhem - High Impact Polystyrene

General Information

Product Description

FRHIPS is an injection molding grade of high impact polystyrene (HIPS) with good dimensional stability, impact strength and rigidity. It consists of a non-halogenated FR system with a flame rating of V-0/1.5mm

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Excellent Colorability	• Flame Retardant	
Uses	• Closures • Consumer Applications	• Household Goods • Industrial Applications	• Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0 to 8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	4000	psi	ASTM D638
Tensile Strength ² (Break)	3600	psi	ASTM D638
Tensile Elongation ² (Break)	35	%	ASTM D638
Flexural Modulus ²	290000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	61		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	187	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

