

Hylar® 301S

polyvinylidene fluoride

Hylar® 301S is a high melt viscosity polyvinylidene fluoride (PVDF) powder used for non-architectural dispersion coatings.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Features	• High Viscosity • Homopolymer
Uses	• Coating Applications
Forms	• Powder
Processing Method	• Coating

Physical	Typical Value	Unit	Test method
Density (23°C)	1.75 to 1.77	g/cm³	ASTM D792
Water Absorption (Equilibrium)	0.020	%	ASTM D570

Thermal	Typical Value	Unit	Test method
Melting Temperature	160	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	124	°C	ASTM D3418
Specific Heat	1300	J/kg/°C	ASTM D3418
Crystallization Heat	44.0	J/g	ASTM D3418
Heat of Fusion	40.0	J/g	ASTM D3418
Thermal Stability ¹			
Air	375	°C	
Nitrogen	410	°C	

Optical	Typical Value	Unit	Test method
Gloss (60°)	25		ASTM D523

Fill Analysis	Typical Value	Unit	Test method
Melt Viscosity	2900 to 3300	Pa·s	ASTM D3835

Additional Information	Typical Value	Unit	Test method
Hegman Grind - Dispersion	5.50		ASTM D1210

Notes

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

¹ 1% mass loss