

Samsung Cheil Industries Starex[®] VE-0856 (VE-0856U UV) Flame Retardant Grade ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

VE-0856U is the UV-Stabilized Version. Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-VE-0856-VE-0856U-UV-Flame-Retardant-Grade-ABS.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	33 g/10 min @Load 10.0 kg, Temperature 220 Â°C	33 g/10 min @Load 22.0 lb, Temperature 428 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength, Yield	39.3 MPa @Thickness 3.17 mm	5700 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	15 % @Thickness 3.17 mm	15 % @Thickness 0.125 in	ASTM D638
Flexural Strength	55.2 MPa @Thickness 3.17 mm	8000 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.28 GPa @Thickness 3.17 mm	330 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	1.76 J/cm @Thickness 6.35 mm	3.30 ft-lb/in @Thickness 0.250 in	ASTM D256
	2.46 J/cm @Thickness 3.17 mm	4.60 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	78.9 Â°C	174 Â°F	Unannealed; ASTM D648

(264 psi) Thermal Properties	@Thickness 6.35 mm Metric	@Thickness 0.250 in English	Comments
Vicat Softening Point	90.0 Å°C	194 Å°F	Unannealed; ISO R 306
Flammability, UL94	5VB	5VB	UL94
	5VA	5VA	UL94
	V-0	V-0	UL94
	@Thickness 2.50 mm	@Thickness 0.0984 in	
	V-0	V-0	UL94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	V-0	V-0	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	170 - 180 Å°C	338 - 356 Å°F	
Middle Barrel Temperature	190 - 200 Å°C	374 - 392 Å°F	
Front Barrel Temperature	200 - 210 Å°C	392 - 410 Å°F	
Melt Temperature	210 - 220 Å°C	410 - 428 Å°F	
Mold Temperature	40.0 - 70.0 Å°C	104 - 158 Å°F	
Drying Temperature	70.0 - 80.0 Å°C	158 - 176 Å°F	
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	58.80 - 108 MPa	8528 - 15600 psi	
Back Pressure	0.689 - 1.38 MPa	100 - 200 psi	
Screw Speed	50 - 70 rpm	50 - 70 rpm	

Descriptive Properties	Value	Comments
UV Resistance	<3 Delta E	300 Hr. Ivory Color; ASTM D4459

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