

Multibase TPSiV™ 3340-55A Thermoplastic Silicone Vulcanizate

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV) , Polyurethane, TP , Silicone, Thermoplastic

Material Notes:

These materials are a novel family of TPV products based on cross-linked silicone rubber dispersed into various engineering thermoplastics. The dispersion of the silicone internal phase is produced by dynamic "vulcanization" or cross-linking of silicone polymers within the thermoplastic organic phase and results in a stable droplet type morphology as shown in the TEM micrograph. TPSiV™ combines the elastomeric performance of silicone rubber with the melt re-processability and thermal and chemical resistance of engineering thermoplastics. Thermoplastic polyurethane based TPSiV™ (3010, 3011, 3111, 3040, 3340 grades) combine the benefits of excellent abrasion resistance from the polyurethane as well as the lower coefficient of friction and improved temperature properties from the silicone rubber. TPSiV™ 3340-55A / 60A / 65A: Designed for excellent UV stability in all colors and is used in injection molding applications, specifically overmolding and co-molding on PC and ABS. They are commonly used in communication devices, computers, and electronic devices. Information provided by Multibase, a Dow Corning Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-TPSiV-3340-55A-Thermoplastic-Silicone-Vulcanizate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	10 sec; ASTM D2240
Tensile Strength at Break	3.00 MPa	435 psi	ASTM D412
Elongation at Break	400 %	400 %	ASTM D412
Tear Strength	15.1 kN/m	86.2 pli	ASTM D412

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	170 °C	338 °F	
Middle Barrel Temperature	180 °C	356 °F	
Front Barrel Temperature	190 °C	374 °F	
Nozzle Temperature	195 °C	383 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Drying Temperature	80.0 °C	176 °F	

Processing Properties	Metric ^{ur}	English ^{ur}	Comments
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Descriptive Properties	Value	Comments
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Injection Rate	Moderate-Fast	
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