

Multibase TPSiV® 4200-50A Thermoplastic Elastomer

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

Material Notes:

FEATURES & BENEFITS: Soft silky feel; Excellent abrasion and scratch resistance; Excellent bonding to PC, ABS; Good chemical

resistanceAPPLICATIONS: Solution for soft touch overmolding on consumer electronics, mobile communication devices, computers, and sport & leisure applications.; Seals and enclosures. Information provided by Multibase, a Dow Corning Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-TPSiV-4200-50A-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ISO 1183
Linear Mold Shrinkage	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 190 °C	10 g/10 min @Load 22.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	54	54	ISO 868
Tensile Strength	7.00 MPa	1020 psi	ISO 37
Tensile Strength, Ultimate	2.00 MPa	290 psi	ISO 37
Elongation at Break	600 %	600 %	ISO 37
Flexural Strength	1.19 MPa	173 psi	ISO 178
Flexural Modulus	0.02001 GPa	2.902 ksi	ISO 178
Tear Strength	26.2 kN/m	149 pli	ISO 34
Taber Abrasion, mg/1000 Cycles	86	86	ASTM D3389
Compression Set	16 % @Temperature 23.0 °C, Time 79200 sec	16 % @Temperature 73.4 °F, Time 22.0 hour	ISO 815
	65 % @Temperature 70.0 °C, Time 79200 sec	65 % @Temperature 158 °F, Time 22.0 hour	ISO 815

Processing Properties	Metric	English	Comments
Feed Temperature	160 - 170 °C	320 - 338 °F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	170 - 180 °C	338 - 356 °F	
Nozzle Temperature	180 - 200 °C	356 - 392 °F	
Melt Temperature	190 °C	374 °F	
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	
Drying Temperature	65.0 - 80.0 °C	149 - 176 °F	
Dry Time	2 - 4 hour	2 - 4 hour	

Descriptive Properties	Value	Comments
Injection Speed	MED-FAST	

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