

Lord Adhesives Chemglaze® V004 Polyurethane Coating

Category : Polymer , Thermoset , Polyurethane, TS

Material Notes:

Chemglaze® V-Line polyurethane coatings are moisture curing aliphatic polyurethane coatings. They are used in product finishing applications on polyvinyl-chloride (PVC) and other plastics where maximum performance properties are needed. These coatings provide the highest possible combinations of abrasion resistance, wear properties and flexibility. Use Chemglaze V-Line coatings as protective coatings for vinyl, Mylar®, ABS, FRP, and Noryl®. Excellent wear is characteristic of all Chemglaze products. In laboratory evaluations 7.6 to 38.1 Åµm (0.3 to 1.5 mils) of Chemglaze V-Line polyurethane coatings provide better scuff and wear resistance than 50.8 - 76.2 Åµm (2 to 3 mils) of conventional scuff coats. Flexible Gloss All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Chemglaze-V004-Polyurethane-Coating.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D1475
Solids Content	29.8 %	29.8 %	by volume; ASTM D2369 Modified
	36 %	36 %	by weight; ASTM D2369 Modified
Volatile Organic Compounds (VOC) Content	611 g/l	611 g/l	ASTM D3960
Brookfield Viscosity	125 cP	125 cP	ASTM D2196, LVT, Spindle #2 @ 30rpm

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.5 MPa	5000 psi	Coatings catalyzed 2% with 9995, baked 15 minutes @ 107Å°C, post cured 2 weeks @ 25Å°C and 50% relative humidity. Free films tested on an Instron tester
Elongation at Yield	300 %	300 %	Coatings catalyzed 2% with 9995, baked 15 minutes @ 107Å°C, post cured 2 weeks @ 25Å°C and 50% relative humidity. Free films tested on an Instron tester

Thermal Properties	Metric	English	Comments
Flash Point	27.0 Å°C	80.6 Å°F	ASTM D3278, Seta Flash, Closed Cup

Processing Properties	Metric	English	Comments
Cure Time	1.00 - 4.00 min	0.0167 - 0.0667 hour	
	@Temperature 149 - 191 Å°C	@Temperature 300 - 376 Å°F	

Processing Properties	2.00 - 5.00 min Metric	0.0333 - 0.0833 hour English	Comments
	@Temperature 121 - 149 Â°C	@Temperature 250 - 300 Â°F	
	10.0 - 30.0 min	0.167 - 0.500 hour	
	@Temperature 93.0 - 121 Â°C	@Temperature 199 - 250 Â°F	

Descriptive Properties	Value	Comments
Appearance	Clear	
Theoretical Coverage (ftÂ²/gallon/mil)	477	

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