

Palm Labs Adhesives TURBO SEAL SERIES 50 PURPLE FLEXIBLE GASKET SEALANT

Category : Polymer , Adhesive , Thermoset , Methacrylate , Methacrylate Adhesive

Material Notes:

TURBO SEAL SERIES 50 is an anaerobic gasket sealant, which develops medium strength in a short time. The compound cures in the absence of air between close fitting surfaces and will flex with minor flange movements. Provides resistance to low pressure immediately after assembly of flanges. Applications: Typically used as a form-in-place pump gaskets, thermostats, compressors, transmission housings & axle covers. Thixotropic nature reduces the migration of liquid product after application. Part Numbers for this data: 50-050, 50-300 Information provided by Palm Laboratories Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-SEAL-SERIES-50-PURPLE-FLEXIBLE-GASKET-SEALANT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	
Brookfield Viscosity	275000 - 950000 cP	275000 - 950000 cP	RVT Spindle 7 @ 20 rpm

Mechanical Properties	Metric	English	Comments
Tensile Strength	0.0965 MPa @Temperature 18.3 - 149 °C	14.0 psi @Temperature 65.0 - 300 °F	Steel-grit based; ISO 6922
Shear Strength	6.00 MPa	870 psi	ISO 4587; Lap, Steel - grit based
	>= 5.00 MPa @Temperature 22.0 °C, Time >=86400 sec	>= 725 psi @Temperature 71.6 °F, Time >=24.0 hour	ISO 10123; Compressive, Steel pins and collars

Thermal Properties	Metric	English	Comments
CTE, linear	0.800 µm/m-°C	0.444 µin/in-°F	ASTM D696
Specific Heat Capacity	0.300 J/g-°C	0.0717 BTU/lb-°F	
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft²-°F	ASTM C177
Flash Point	>= 33.9 °C	>= 93.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	15.0 - 120 min	0.250 - 2.00 hour	Cure Time, Primed Surfaces
	60.0 - 120 min	1.00 - 2.00 hour	Cure Time, Unprimed Surfaces

Descriptive Properties	Value	Comments
Appearance	Purple	
Chemical Resistance	100% Initial Strength Retained	Acetone at 22°C, at 500hrs
	15% Initial Strength Retained	Gasoline at 22°C, at 1000hrs
	160% Initial Strength Retained	Motor Oil at 125°C, at 500hrs
	165% Initial Strength Retained	Motor Oil at 125°C, at 1000hrs
	20% Initial Strength Retained	Gasoline at 22°C, at 500hrs
	80% Initial Strength Retained	Water/Glycol at 87°C, at 500hrs
	80% Initial Strength Retained	Water/Glycol at 87°C, at 1000hrs
	85% Initial Strength Retained	Ethanol at 22°C, at 1000hrs
	90% Initial Strength Retained	Ethanol at 22°C, at 500hrs
	95% Initial Strength Retained	Brake Fluid at 22°C, at 500hrs
	95% Initial Strength Retained	Acetone at 22°C, at 1000hrs
	95% Initial Strength Retained	Brake Fluid at 22°C, at 1000hrs
Composition	Dimethacrylate ester	

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