

BASF Palamoll® 656 Polymeric Plasticizer

Category : Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Description: Palamoll® 656 is a high viscosity polymeric plasticizer that is compatible with PVC. It is based on adipic acid and polyhydric alcohols. It is resistant to oils, fats, aliphatic hydrocarbons, bitumen and water. It is soluble in organic esters, ketones, ethers, aromatic and chlorinated hydrocarbons **Applications:** Palamoll® 656 has very little tendency to migrate into other plastics or adhesives. It is highly resistant to animal, mineral and vegetable fats and oils and is used for protective aprons, gloves and boots. It is used in roofing systems and expansion joint tapes where bitumen, water and sunlight resistance is important. Palamoll® 656 is used in films that are coated with an adhesive such as electrical tape, decals and decorative film. It should be preheated to 80°C before addition to the blender. The mixing cycle should continue until a temperature of 150° - 170°C is reached, depending on the amount of plasticizer. It has a higher molecular weight than monomeric plasticizers and must be processed at a higher fusion temperature. **Notes:** Properties for product in vinyl film, the specimens were prepared from compression-molded film of 60 mils gauge for the determination of torsional rigidity, 400 mils Shore A and D hardness and 20 mils for all other properties. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Palamoll-656-Polymeric-Plasticizer.php

Physical Properties	Metric	English	Comments
Density	1.079 - 1.099 g/cc	0.03898 - 0.03970 lb/in³	ASTM D4052
Solubility in Water	<= 0.000010 %	<= 0.000010 %	
Viscosity	2500 cP	2500 cP	
	@Temperature 40.0 °C	@Temperature 104 °F	
	11000 cP	11000 cP	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	10000 - 13000 cP	10000 - 13000 cP	ASTM D445
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	70000 cP	70000 cP	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Molecular Weight	6700 g/mol	6700 g/mol	
Vapor Pressure	<= 0.000100 bar	<= 0.0750 torr	
Storage Temperature	>= 30.0 °C	>= 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	Plasticizer conc. in vinyl film 67 phr; ASTM D 2240

Mechanical Properties	@Time 15.0 sec Metric	@Time 0.00417 hour English	Comments
	>= 90	>= 90	Plasticizer conc. in vinyl film 33 phr; ASTM D 2240
	@Time 15.0 sec	@Time 0.00417 hour	
Hardness, Shore D	27	27	Plasticizer conc. in vinyl film 67 phr; ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
	65	65	Plasticizer conc. in vinyl film 33 phr; ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength	22.0 MPa	3190 psi	Plasticizer conc. in vinyl film 67 phr; ASTM D638
	34.0 MPa	4930 psi	Plasticizer conc. in vinyl film 33 phr; ASTM D638
Elongation at Break	270 %	270 %	Plasticizer conc. in vinyl film 33 phr; ASTM D638
	360 %	360 %	Plasticizer conc. in vinyl film 67 phr; ASTM D638
100% Modulus	0.007695 GPa	1.116 ksi	Plasticizer conc. in vinyl film 67 phr; ASTM D638
	0.02099 GPa	3.045 ksi	Plasticizer conc. in vinyl film 33 phr; ASTM D638
Torsional Stiffness	310 MPa	45000 psi	Plasticizer conc. in vinyl film 33 phr; ASTM D1043
	@Temperature 13.0 °C	@Temperature 55.4 °F	
	310 MPa	45000 psi	Plasticizer conc. in vinyl film 67 phr; ASTM D1043
	@Temperature -18.0 °C	@Temperature -0.400 °F	

Thermal Properties	Metric	English	Comments
Pour Point	-10.0 °C	14.0 °F	
Brittleness Temperature	-28.0 °C	-18.4 °F	Plasticizer conc. in vinyl film 67 phr; ASTM D746
	-1.00 °C	30.2 °F	Plasticizer conc. in vinyl film 33 phr; ASTM D746
Flash Point	274 °C	525 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.467 - 1.47	1.467 - 1.47	ASTM D1045

Chemical Properties	Metric	English	Comments
---------------------	--------	---------	----------

Total Acid Number Chemical Properties	<= 1.5 Metric	<= 1.5 English	[mg KOH/g]; ASTM D1045 Comments
------------------------------------------	------------------	-------------------	------------------------------------

Processing Properties	Metric	English	Comments
Moisture Content	0.10 %	0.10 %	ASTM E203

Descriptive Properties	Value	Comments
Color	<150	APAH, ASTM D5386
Ignition Temperature	425°C	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China