

PEARLCOAT® DIPP 119

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Pearlbond™ DIPP-119 is polycaprolactone copolyester based thermoplastic polyurethane, supplied in form of translucent pellets. Featuring low melting point and excellent transparency, this product offers excellent flexibility, elasticity and easy processing. Ideally used for extrusion or compounding with PVC.

APPLICATIONS

Pearlbond™ DIPP-119 is used mostly in extrusion applications where low melting point as well as improved adhesion over polar substrates is highly appreciated. It is ideal for PVC compounding. It is also used in solvent coatings on textile substrates.

General Information			
Features	High Flexibility		
	High elasticity		
	Workability, good		
	Definition, high		
Uses	Textile applications		
	Composite		
Appearance	Translucent		
Forms	Particle		
Processing Method	Composite		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.16	g/cm ³	ASTM D792
20°C	1.16	g/cm ³	ISO 2781
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	25 - 50	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
--	12.0	MPa	ISO 527-2
100% strain	2.00	MPa	ISO 527-2
300% strain	3.00	MPa	ISO 527-2
Tensile Strain (Break)	800	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	2.00	MPa	ASTM D412

300% strain	3.00	MPa	ASTM D412
Tensile Strength (Break)	12.0	MPa	ASTM D412
Tensile Elongation (Break)	800	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	100 - 110	°C	Internal method
Additional Information	Nominal Value	Unit	Test Method
Softening Range	90 - 100	°C	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	70 - 80	°C	
Drying Time	2.0 - 3.0	hr	
Cylinder Zone 1 Temp.	120 - 130	°C	
Cylinder Zone 2 Temp.	145 - 155	°C	
Cylinder Zone 3 Temp.	160 - 170	°C	
Cylinder Zone 4 Temp.	165 - 175	°C	
Die Temperature	145 - 155	°C	
NOTE			
1.	20°C		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

