

Pearlbond™ 12F75UV

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Pearlbond™ 12F75UV is a UV-resistant standard polyester-based TPU supplied in form of translucent, colourless pellets, featuring a low melting point and very low gel content. Processed by extrusion and compounding.

APPLICATIONS

Pearlbond™ 12F75UV is designed for a wide variety of adhesive film applications requiring excellent adhesion in combination with good heat resistance and dry cleaning resistance. This grade can be both cast extruded and blown.

General Information			
Features	Good Heat Resistance		
	Low speed solidification crystal point		
	Good UV resistance		
	Good adhesion		
Uses	Blown Film		
	Films		
	Composite		
	cast film		
	Adhesive		
Appearance	Translucent		
	Colorless		
Forms	Particle		
Processing Method	Blow film		
	Composite		
	Extrusion		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.15	g/cm ³	ASTM D792
20°C	1.15	g/cm ³	ISO 2781
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	40 - 65	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	78		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
--	30.0	MPa	ISO 527-2

100% strain	4.00	MPa	ISO 527-2
300% strain	7.00	MPa	ISO 527-2
Tensile Strain (Break)	530	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	4.00	MPa	ASTM D412
300% strain	7.00	MPa	ASTM D412
Tensile Strength	30.0	MPa	ASTM D412
Tensile Elongation (Break)	530	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	130 - 140	°C	Internal method
Additional Information	Nominal Value	Unit	Test Method
Softening Range	110 - 130	°C	Internal method
Extruder Screw L/D Ratio	25.0:1.0 to 30.0:1.0		
Extruder Screw Compression Ratio	2.0:1.0 to 3.0:1.0		
Extrusion	Nominal Value	Unit	
Drying Temperature	90 - 105	°C	
Drying Time	1.0 - 2.0	hr	
Cylinder Zone 1 Temp.	145 - 155	°C	
Cylinder Zone 2 Temp.	155 - 165	°C	
Cylinder Zone 3 Temp.	165 - 170	°C	
Cylinder Zone 4 Temp.	170 - 180	°C	
Die Temperature	170 - 180	°C	
NOTE			
1.	20°C		

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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



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