

PEARLCOAT® Activa D118K

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Pearlcoat® Activa D118K is a special copolyester based thermoplastic polyurethane of low hardness, supplied in form of natural pellets. This product gives an inherent "low gloss aspect" on the final product surface after extrusion processing. Featuring low gel content as well as low-temperature flexibility, it is ideally suited for extrusion or co-extrusion onto polar substrates.

Pearlcoat® Activa D118K is ideally used for extrusion, co-extrusion onto polar substrates applications where low gloss aspect is required.

General Information			
Features	Low speed solidification crystal point		
	Flexibility at low temperatures		
	Gloss, low		
	Hardness, low		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Natural color		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
20°C	1.05	g/cm ³	ISO 2781
Moisture Content	< 1000	ppm	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	30.0	mm ³	ISO 4649
Extruder Screw L/D Ratio	25:1		
Extruder Screw Compression Ratio	3:1		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 527
100% strain	3.00	MPa	ASTM D412, ISO 527
300% strain	6.00	MPa	ASTM D412, ISO 527
Tensile Strength (Yield)	30.0	MPa	ASTM D412, ISO 527
Tensile Elongation (Break)	620	%	ASTM D412, ISO 527
Tear Strength			
-- ¹	45.0	kN/m	ASTM D624
-- ²	45	kN/m	ISO 34-1

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-31.0	°C	ISO 11357-2
Melting Temperature ³	135 - 145	°C	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0 - 100	°C	
Drying Time	1.0 - 2.0	hr	
Cylinder Zone 1 Temp.	175 - 195	°C	
Cylinder Zone 2 Temp.	180 - 200	°C	
Cylinder Zone 3 Temp.	185 - 205	°C	
Cylinder Zone 4 Temp.	175 - 195	°C	
Die Temperature	175 - 195	°C	
Extrusion instructions			
Cooling: AirSpeed: 60 rpmThickness Die: 0.2 mm			
NOTE			
1.	C mould		
2.	Method B, right-angle specimen (without cut)		
3.	Temperature at which MFI = 10 g/10 min @ 21.6 kg		

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