

Sipolprene® 46185

Thermoplastic Copolyester Elastomer

SIPOL S.p.A

Message:

Sipolprene® 46185 is an ether ester thermoplastic elastomer (TPC-ET), developed and manufactured by Sipol, with a nominal hardness of Shore D 44, a low modulus, and a rheological behaviour, which makes it suitable for injection molding and extrusion processing.

Sipolprene® 46185 comes in a natural color with a standard stabilisation package, fully in compliance with American FDA and European EU 10/2011 Food Contact Regulations.

Black color and/or UV stabilised and/or heat stabilised are all available in dry blend version on request.

General Information			
Additive	Unspecified Stabilizer		
Features	Food Contact Acceptable		
Agency Ratings	EU 10/2011		
	FDA Food Contact, Unspecified Rating		
Appearance	Natural Color		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	34	g/10 min	ASTM D1238, ISO 1133
Water Absorption (23°C, 24 hr)	0.45	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	44		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	34.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	700	%	ASTM D638, ISO 527-2
Flexural Modulus	80.0	MPa	ASTM D790, ISO 178
Abrasion Resistance	19.0	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	142	kN/m	ASTM D1004
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	149	°C	ISO 306/A50, ASTM D1525 1
Peak Melting Temperature	186	°C	ASTM D3418, ISO 3146
NOTE			
1.	Rate A (50°C/h), Loading 1 (10 N)		

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