

# Sipolprene® 46185 B

Thermoplastic Copolyester Elastomer

SIPOL S.p.A

Message:

Sipolprene® 46185 B (black color version in dry blend) 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 moulding and extrusion processing.

General Information			
Appearance	Black		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	34	g/10 min	ASTM D1238, ISO 1133
Water Absorption <sup>1</sup> (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 <sup>3</sup>	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 <sup>2</sup>
Peak Melting Temperature	186	°C	ASTM D3418, ISO 3146
NOTE			
1.	Immersion		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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