

Sipolprene® 55200 B

Thermoplastic Copolyester Elastomer

SIPOL S.p.A

Message:

Sipolprene® 55200 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 52, a medium modulus, and a rheological behaviour, which makes it suitable for injection molding and extrusion processing.

General Information			
Appearance	Black		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183, ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238, ISO 1133
Water Absorption ¹ (23°C, 24 hr)	0.29	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	43.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	650	%	ASTM D638, ISO 527-2
Flexural Modulus	200	MPa	ASTM D790, ISO 178
Abrasion Resistance	15.0	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	174	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	177	°C	ISO 306/A50, ASTM D1525 ²
Peak Melting Temperature	198	°C	ASTM D3418, ISO 3146
NOTE			
1.	Immersion		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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