

## Technical Data Sheet

# SIPOLPRENE® 68217

### DESCRIPTION

Sipolprene® 68217 is an ether ester thermoplastic elastomer (TPC-ET), developed and manufactured by Sipol, with a nominal hardness of Shore D 68, a high modulus, and a rheological behaviour, which makes it suitable for injection moulding and extrusion processing.

Sipolprene® 68217 comes in a natural colour with a standard stabilisation package, fully in compliance with American FDA and European EU 10/2011 Food Contact Regulations.

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

### TECHNICAL CHARACTERISTICS

PROPERTY	TEST METHOD	U.M.	VALUE
Density	ASTM D 792   ISO 1183	g/cm <sup>3</sup>	1,25
Hardness instantaneous / 15 s	ASTM D 2240   ISO 868	Shore D	68/65
Stress at break	ASTM D 638   ISO 527	MPa	54
Elongation at break	ASTM D 638   ISO 527	%	450
Flexural modulus	ASTM D 790   ISO 178	MPa	550
Tear strength	ASTM D 1004	N/mm	245
Melting temperature	ASTM D 3418   ISO 11357-3	°C	217
Glass transition temperature	ASTM D 3418   ISO 11357-2	°C	27
Vicat A/50	ASTM D 1525   ISO 306	°C	208
Abrasion resistance	ASTM D 1044 (Taber H-18 1Kg)	mg/1000 rev	35
Water absorption (23°C x 24 h immersion)	MI 08	%	0,2
Viscosity - MFI 230°C 2.16 Kg	ASTM D 1238   ISO 1133	g/10 min	20
Izod impact resistance/notched (23°C)	ASTM D 256   ISO 180	J/m	No break
Izod impact resistance/notched (-40°C)	ASTM D 256   ISO 180	J/m	15

### PACKAGING

25 kg bags equipped with an aluminum film barrier against moisture action.

500 kg cardboard octabins equipped with an inner PE liner.

### STORAGE

Product is stable for 12 months when stored unopened in its original packaging, kept in a cool and dry place and protected from light. When stocked around 5 – 10°C or below, it is recommended to keep it at 15 – 20°C for at least for 24 hours before using it.