

Total PS CPDS 9217 Compound Polystyrene/Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , Polystyrene (PS)

Material Notes:

POLYSTYRENE (PS) COMPOUND (CPDS) 9217 is an alloy of polystyrene and polyethylene. This combination brings the benefits of polyethylene; a high level of stress crack resistance, mechanical properties, etc., whilst maintaining the processability of polystyrene. Main Characteristics: Excellent ESCR properties, High impact and cold impact strength, High elongation at break, Good abrasion and tear resistance. Applications: Packaging, Pipe coating, Electrical insulation. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PS-CPDS-9217-Compound-PolystyrenePolyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ISO 1183
Water Vapor Transmission	3.00 - 5.00 g/m ² /day @Thickness 0.300 mm, Temperature 38.0 °C	0.193 - 0.322 g/100 in ² /day @Thickness 0.0118 in, Temperature 100 °F	90% RH; ISO 62
Melt Flow	4.0 g/10 min @Load 5.00 kg, Temperature 200 °C	4.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	ISO 527-2
Elongation at Break	80 %	80 %	ISO 527-2
Flexural Modulus	1.45 GPa	210 ksi	ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m ² @Temperature -30.0 °C	9.52 ft-lb/in ² @Temperature -22.0 °F	180/1A
	40.0 kJ/m ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	180/1A
Tear Strength, Total	30.0 N @Thickness 0.00300 mm	6.74 lb (f) @Thickness 0.000118 in	parallel; ISO 34C
	35.0 N @Thickness 0.00300 mm	7.87 lb (f) @Thickness 0.000118 in	perpendicular; ISO 34C

Thermal Properties	Metric	English	Comments
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Thermal Properties Vicat Softening Point	75.0 °C Metric	169 °F English	Comments 50 °C per hour; ISO 306B50
	@Load 5.10 kg	@Load 11.2 lb	
	101 °C	214 °F	50 °C per hour; ISO 306A50
	@Load 1.02 kg	@Load 2.25 lb	

Descriptive Properties	Value	Comments
Stress Cracking Performance	0 - 5%	Difference in elongation at break between a sample exposed to sunflower oil for 50 hours and an unexposed sample.

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China