

Polimeri Europa Sinkral® PD D 232/M4 ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

Material Notes:

Special very low gloss extrusion / co-extrusion grade, with good flow. Applications: Sinkral PD D 232/M4 is widely used in extrusion / co-extrusion of foils, when a very high matte appearance is required, as well as in the extrusion of profiles. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Sinkral-PD-D-232M4-ABS-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ISO 1183
Water Absorption	0.30 %	0.30 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	8.0 g/10 min	8.0 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ISO 2039/2
Tensile Strength at Break	27.0 MPa	3920 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Flexural Strength	40.0 MPa	5800 psi	ASTM D790
Flexural Modulus	1.55 GPa	225 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ISO 180/4A
	@Thickness 3.20 mm, Temperature -40.0 °C	@Thickness 0.126 in, Temperature -40.0 °F	
	0.800 J/cm	1.50 ft-lb/in	ISO 180/4A
	@Thickness 3.20 mm, Temperature -20.0 °C	@Thickness 0.126 in, Temperature -4.00 °F	
0.900 J/cm	@Thickness 3.20 mm, Temperature 0.000 °C	1.69 ft-lb/in	ISO 180/4A
		@Thickness 0.126 in, Temperature 32.0 °F	
1.10 J/cm	@Thickness 3.20 mm, Temperature 23.0 °C	2.06 ft-lb/in	ISO 180/4A
		@Thickness 0.126 in, Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180/1A
	@Thickness 4.00 mm, Temperature -40.0 °C	@Thickness 0.157 in, Temperature -40.0 °F	
	9.50 kJ/m ²	4.52 ft-lb/in ²	ISO 180/1A
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	ASTM C177
Vicat Softening Point	101 °C	214 °F	ISO 306/B 120
	@Load 5.10 kg	@Load 11.2 lb	
	106 °C	223 °F	ISO 306/A 120
	@Load 1.02 kg	@Load 2.25 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	650 °C	1200 °F	IEC 60695-2-1
	@Thickness 3.00 mm	@Thickness 0.118 in	
Shrinkage	0.40 - 0.60 %	0.40 - 0.60 %	Internal method

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.1	3.1	dry; IEC 60250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243

Electrical Properties	0.015 Metric	0.015 English	Comments 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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