

Braskem PCD 0140 HECO Polypropylene Heterophasic Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

PCD 0140 is a low melt flow rate heterophasic copolymer with high impact resistance. This resin was developed for steel pipe coating extrusion. PCD 0140 is highly protected against thermal aging and designed for continuous use at high temperatures. Its applications include: undercoating, solid thermal coating, and foam thermal coating.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-PCD-0140-HECO-Polypropylene-Heterophasic-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM-D792
Oxidative Induction Time (OIT)	>= 50 min @Temperature 220 °C	>= 50 min @Temperature 428 °F	ASTM-D3895
Melt Flow	0.75 g/10 min @Load 2.16 kg, Temperature 230 °C	0.75 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM-D2240
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM-D638
Elongation at Break	>= 400 %	>= 400 %	ASTM-D638
	>= 140 % @Time 1.26e+7 sec	>= 140 % @Time 3500 hour	UV Stability; ASTM D155
Elongation at Yield	7.0 %	7.0 %	ASTM-D638
Flexural Modulus, 1% Secant	1100 MPa	160000 psi	ASTM-D790
Taber Abrasion, mg/1000 Cycles	7.0 @Load 1.00 kg	7.0 @Load 2.20 lb	CS-17; ASTM D4060

Thermal Properties	Metric	English	Comments
Thermal Conductivity	<= 0.220 W/m-K	<= 1.53 BTU-in/hr-ft ² -°F	ASTM C177/C518
Melting Point	163 °C	325 °F	ASTM-D3418
Vicat Softening Point	146 °C @Load 1.02 kg	295 °F @Load 2.25 lb	ASTM-D1525

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM-D257

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