Braskem

Data Sheet

Polypropylene PCD 0140BR

Sub-group:

Heterophasic Copolymer

Description:

PCD 0140BR is a low melt flow rate heterophasic copolymer with high impact resistance. This resin was developed for steel pipe coating extrusion. PCD 0140BR is highly protected against thermal ageing, designed for continuous use at high temperature, and UV stabilized.

Applications:

External three layer extruded polypropylene (topcoating) based coatings for corrosion protection of welded and seamless steel pipes (3LPP). Topcoating and undercoating in thermal insulation coating of steel pipes.

Processing:

SPC

Control Property:

	ASTM Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	D 1238	g/10 min	0.75

Typical Propertiesa:

	ASTM Method	Units	Values
Density	D 792	g/cm³	0.915
Flexural Modulus – 1% secant	D 790	MPa	1100
Tensile Strength at Yield	D 638	MPa	25
Tensile Elongation at Yield	D 638	%	7.0
Tensile Elongation at Break	D 638	%	≥ 400
Hardness Shore D/1	D 2240	-	66
Volume Resistivity	D 257	Ω.cm	10^{17}
Thermal Conductivity	C177 or C518	W/m.k	≤ 0,22
Abrasion by Taber Abrader (CS-17 / 1000 g / 1000 cycles)	D 4060	mg	7
OIT at 220ºC	D 3895	min	≥ 50
Melting Temperature	D 3418	ºC	163
Vicat Softening Temperature at 10 N	D 1525	ºC	147
UV Stability after 3500 h - Elongation at break variation - Melt flow Index variation	D 155 – Cycle 1	%	 -15 -20

a) Compression molded specimen according to ASTM D 4703.