

P702BK

High Density Polyethylene (HDPE)

Description:

POLIMAXX P702BK is special jacket compound produced from High-Density Polyethylene used for sheath of optical fiber cable.

POLIMAXX P702BK is special compound for the purpose of extruding wire and cable jacket, providing abrasion resistance, stress-cracking resistance and easy process ability.

POLIMAXX P702BK contains necessary additives designed especially for extrusion process. Thus, it will provide excellent UV and weathering resistance.

Physical Properties:	Method	Unit	Value
Density	ISO 1183	g /cm ³	0.968
Melt Flow Rate (190°C,5 kg)	ISO 1133	g/10min	1.5
Tensile Strength at Yield	ISO 527	MPa	30
Elongation at Break	ISO 527	%	700
ESCR	ASTM D1693	hrs	>5000
Carbon Black Content	ISO 6964	%wt	2.6
Dielectric Constant (1 MHz)	ASTM D150	εr	2.53
Dissipation Factor	ASTM D150	D	0.0024
Volume Resistivity (1 MHz)	ASTM D257	Ω-cm	5.03x10 ¹⁶
Shrinkage	ISO 294	%	1.5-2.5
Hardness	ASTM D2240	Shore D	63
Melting Temperature (10oC/min)	ASTM D3418	°C	130-135
Vicat Softening Point (1Kg)	ASTM D1525	°C	128

Processing Technique

Recommended Process Temperature 180-220 °C

However, the actual processing conditions depend on size, machine and any related processing aspect. Recommend to dry before use at 80-85°C for 1-2 hrs, long storage is not recommend

Remark: The values presented on the above are typical laboratory average, not to be construed as specifications and may vary within moderate ranges. The applicability or the accuracy of this information or the suitability of our products cannot be guaranteed because the conditions of use on the part or our uses are beyond our control.