

LyondellBasell Petrothene® HR92953 Medium Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Extruded

Material Notes:

Applications PETROTHENE HR 92953 is a medium density polyethylene-based resin designed for use as jacketing for communications cable, including CATV and FOC. HR 92953 has a nominal carbon black content of 2.6% and antioxidant has been added to ensure thermal stability during processing.

Processing Techniques HR 92953, like other thermoplastic polyolefin compounds, can be extruded as wire and cable insulation using a conventional extruder. Below are suggested extrusion conditions for HR 92953. These conditions are intended as general guidelines only and are not optimum values, since manufacturing conditions, such as extruder type and size, affect the processing of thermoplastic compounds. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-HR92953-Medium-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	Condition A - 10% Igepal®; ASTM D1693
Absorption Coefficient	450	450	ASTM D3349
Carbon Black Loading	2.6 %	2.6 %	
Melt Flow	0.65 g/10 min	0.65 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength at Break	27.6 MPa	4000 psi	ASTM D638
Tensile Strength, Yield	16.5 MPa	2400 psi	ASTM D638
Elongation at Break	880 %	880 %	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	175 Âµm/m-Â°C @Temperature 20.0 Â°C	97.2 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM D696
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	F₅₀; ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.55 @Frequency 1e+6 Hz	2.55 @Frequency 1e+6 Hz	ASTM D1531

Electrical Properties	Metric	English	Comments
	2.17 W/mm	2.17 W/in	ISO, ASTM D149
Dissipation Factor	0.00050	0.00050	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Feed Temperature	154 - 163 Â°C	310 - 325 Â°F	
Zone 2	177 - 193 Â°C	350 - 380 Â°F	
Zone 3	193 - 210 Â°C	380 - 410 Â°F	
Zone 4-x	204 - 218 Â°C	400 - 425 Â°F	
Adapter Temperature	204 - 218 Â°C	400 - 425 Â°F	
Die Temperature	204 - 218 Â°C	400 - 425 Â°F	

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