

TOTAL Polyethylene CD-471

High Density Polyethylene
TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene CD-471 is a high density polyethylene material. This product is available in North America.
The main features of TOTAL Polyethylene CD-471 are:
Comply with REACH standard
High resistance to environmental stress fracture (ESCR)
Good processability
Impact resistance
The typical application field of TOTAL Polyethylene CD-471 is: wire and cable

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Impact resistance, good		
	Workability, good		
Uses	Wire and cable applications		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.947	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.28	g/10 min	ASTM D1238
190°C/21.6 kg	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
10% Igepal	> 500	hr	ASTM D1693B
100% Igepal	> 1000	hr	ASTM D1693C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	22.8	MPa	ASTM D638
Tensile Elongation ² (Break)	600	%	ASTM D638
Flexural Modulus - 2% Secant	793	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	126	°C	ASTM D3418
CLTE - Flow	1.8E-4	cm/cm/°C	ASTM D696
Additional Information			
ASTM Cell Classification, ASTM D3350: 335440Elongation at Break, ASTM D638, Type IV, 2 in/min: >600%			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	193 - 216	°C	
Cylinder Zone 2 Temp.	193 - 216	°C	

Cylinder Zone 3 Temp.	193 - 216	°C
Cylinder Zone 4 Temp.	193 - 216	°C
Cylinder Zone 5 Temp.	193 - 216	°C
Melt Temperature	204	°C

Extrusion instructions

Vacuum Tank Water Temperature: 73°F

NOTE

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| 1. | Type 4, 51mm/min |
| 2. | Type 4, 51mm/min |

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