

Quadrant EPP CESTILENE HD 1000 R

Ultra High Molecular Weight Polyethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP CESTILENE HD 1000 R is an Ultra High Molecular Weight Polyethylene product. It is available in Europe. Typical application: Industrial Applications.

Characteristics include:

- Flame Rated
- Eco-Friendly/Green
- High Molecular Weight
- Impact Resistant
- Wear Resistant

General Information	
Recycled Content	Yes
Features	Good Impact Resistance
	Good Wear Resistance
	Ultra High Molecular Weight
Uses	Industrial Applications
Appearance	Black
	Green
Forms	Disc
	Pellets, Reprocessed
	Preformed Parts

Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C, 1.00 mm)	0.020	%	ISO 62
Molecular Weight	4000000	g/mol	
Service Temperature - Minimum	-150	°C	
Relative Weight Loss			Internal Method
-- 1	180		
-- 2	150		

Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D, 3 sec	63		
Shore D, 15 sec	61		
Ball Indentation Hardness	38.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	950	MPa	ISO 527-2/1B/1

Tensile Stress (Yield)	22.0	MPa	ISO 527-2/1B/50
Tensile Strain (Yield)	13	%	ISO 527-2/1B/50
Nominal Tensile Strain at Break	> 50	%	ISO 527-2/1B/50
Compressive Stress			ISO 604/1
5% Strain	18.0	MPa	
2% Strain	10.5	MPa	
1% Strain	6.00	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-- ³	> 80	kJ/m ²	Internal Method
Partial Break	> 90	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	42.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- ⁴	80.0	°C	
-- ⁵	120	°C	
Vicat Softening Temperature	80.0	°C	ISO 306/B
Melting Temperature	130 to 135	°C	ISO 11357-3
CLTE - Flow (23 to 100°C)	2.0E-4	cm/cm/°C	
Thermal Conductivity (23°C)	0.40	W/m/K	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Oxygen Index	< 20	%	ISO 4589-2
NOTE			
1.	Wear test in sand/water slurry		
2.	Wear test on plastics pin on rotating steel disk-tribo system		
3.	Double 15° notch, DIS 11542-2		
4.	20000 hrs		
5.	Short periods		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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