Hostalen GM 5010 T3 black

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen GM 5010 T3 black is a high density polyethylene (HDPE), black coloured similar RAL 9004 with high melt viscosity for extrusion, injection and compression moulding. The product is classified as PE 80 and provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength.
It is not intended for medical and pharmaceutical applications.

General Information	
Additive	Carbon Black (2%)
Features	High ESCR (Stress Crack Resist.) High Viscosity
Uses	Piping
Agency Ratings	PPI PE-80
Appearance	Black
Forms	Pellets
Processing Method	Compression Molding Extrusion Injection Molding Pipe Extrusion Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.957	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	9.0	g/10 min	
190°C/5.0 kg	0.43	g/10 min	
FNCT (80°C) [1]	> 20.8	day	ISO 16770
Flexural Creep Modulus			DIN 19537-2
-- [2]	470	MPa	
-- [3]	300	MPa	
-- [4]	1000	MPa	
Maximum Elongation - TD	> 350	%	EN 638
Oxidation Induction Time (210°C)	30	min	ISO 11357-6
MRS Classification	8.00	MPa	ISO TR 9080
Odor Threshold	< 2.00		EN 1622/EN 1420
Staudinger Index - Jg	310	cm³/g	ISO 1628

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	59		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1050	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	22.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C	8.0	%	
Break, 23°C, 4.00 mm	600	%	
Tensile Creep Modulus [5]			ISO 899-1
1 hr	640	MPa	
1000 hr	300	MPa	
Flexural Stress (3.5% Strain)	18.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	8.0	kJ/m^2	
23°C	24	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	70.0	°C	ISO 306/B50
Injection	**Nominal Value**	**Unit**	
Rear Temperature	200 to 280	°C	
Middle Temperature	200 to 280	°C	
Front Temperature	200 to 280	°C	
Processing (Melt) Temp	190 to 220	°C	
NOTE			
1.	4.0 MPa, 2% Arkopal N 100		
2.	24 hr, 4 point loading method		
3.	2000 hr, 4 point loading method		
4.	1 min, 4 point loading method		
5.	2 MPa Test Stress		

Recommended distributors for this material

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