EQUATE PE EPDA-5040

High Density Polyethylene Copolymer EQUATE Petrochemical Company KSCC

Message:

EPDA-5040 is a high molecular weight high density polyethylene copolymer resin designed for non-pressure gravity pipe applications. It has a good balance of flexibility, ductility, stiffness and toughness for exceptional freedom in pipe designing. It also offers excellent resistance to environmental stress cracking. EPDA-5040 has been adequately stabilized for long-term service life durability. The product's broad molecular weight distribution provides for easy procesability in to pipe with smooth pipe surfaces and good dispersion of pigments, and carbon black for protection against UV light. EPDA-5040 applications include gravity pipe systems for underground drainage and sewage. It is suitable for both straight and structured wall pipes. In addition it can also be used for extruding electrical conduits.

General Information				
Features	Copolymer			
	Ductile			
	Good Flexibility			
	Good Processability			
	Good Stiffness			
	Good Toughness			
	High Density			
	High ESCR (Stress Crack Resist.) High Molecular Weight			
	Wide Molecular Weight Distribution	n		
Uses	Conduit			
	Piping			
Forms	Pellets			
Processing Method	Extrusion			
	Pipe Extrusion			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.952	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (190°C/21.6	10			
kg)	10	g/10 min	ASTM D1238	
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	> 1000	hr	ASTM D1693B	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength			ASTM D638	
Yield	26.0	MPa		
Break	35.0	MPa		
Tensile Elongation (Break)	> 750	%	ASTM D638	
Flexural Modulus	1180	MPa	ASTM D790	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area)	17.0	kJ/m²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MPa, Unannealed)	99.0	°C	ASTM D648
Vicat Softening Temperature	130	°C	ASTM D1525
Melting Temperature	135	°C	DSC
Peak Crystallization Temperature (DSC)	113	°C	Internal Method
CLTE - Flow	1.5E-4	cm/cm/°C	ASTM D696
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	200	°C	
		L	
Cylinder Zone 2 Temp.	205	°	
Cylinder Zone 2 Temp. Cylinder Zone 3 Temp.	205 205	℃ ℃	
Cylinder Zone 2 Temp. Cylinder Zone 3 Temp. Cylinder Zone 4 Temp.	205 205 205	°℃ °℃ °℃	
Cylinder Zone 2 Temp. Cylinder Zone 3 Temp. Cylinder Zone 4 Temp. Adapter Temperature	205 205 205 205	°C °C °C	
Cylinder Zone 2 Temp. Cylinder Zone 3 Temp. Cylinder Zone 4 Temp. Adapter Temperature Melt Temperature	205 205 205 210	°C °C °C °C °C	

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