



Physical properties of TPX® DX820

Highly recommended for paper coating extrusion and for fibre extrusion

Physical Properties	Item	Test Condition	Unit	Test Method	Value	
Basic Properties	Density		kg/m ³	ASTM-D1505	833	
	MFR	P=5kg, 260°C	g/10 min	ASTM-D1238	180	
	Melting Point	Peak Temp.	°C	JIS-K7121 (DSC method)	236	
	Water Absorption		%	ASTM-D570	<0.01	
Thermal Properties	Vicat Softening Point		°C	ASTM-D1525	185	
	Heat Distortion Temperature (HDT)	0.43 MPa	°C	ASTM-D648	132	
	Expansion Coefficient		10 ⁻⁶ K ⁻¹	ASTM-E831	1.17x10 ⁻⁴	
Mechanical Properties @ 23°C	Yield Stress		MPa	ASTM-D638	32	
	Tensile Strength		MPa	ASTM-D638	25	
	Elongation at Break		%	ASTM-D638	10	
	Tensile Modulus		MPa	ASTM-D638	2050	
	Flexural Modulus		MPa	ASTM-D790	1770	
	Flexural Strength		MPa	ASTM-D790	49	
	Izod Impact Strength	With Notch		J/m	ASTM-D256	19
		Without Notch		KJ/m ²	ASTM-D256	8
Rockwell Hardness	R Scale		-	ASTM-D785	92	
Optical Properties	Haze		%	ASTM-D1003	2.1	
	Transmittance		%	ASTM-D1003	92	
	Refractive Index		-	ASTM-D542	1.46	
Electrical Properties	Volume Resistivity		Ω . cm	ASTM-D257	>10 ¹⁶	
	Dielectric Breakdown Voltage		kV/mm	ASTM-D149	65	
	Dielectric Constant		-	ASTM-D150	2.1	

Notes:

MCI method 1 moulding temp: 310–330°C (depending on the grade)

MCI method 2 moulding temp: 260–280°C (depending on the grade)

All information and technical data are given as a guide only. Although every effort has been made to ensure that the information is correct, no warranty is given as to its completeness or accuracy.

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