

EPC DPONATE 2770R

(PC FR)

DESCRIPTION

This PC compound is flame retardant that offers a balance of properties including moderate flow characteristic for ease of processing, UV stabilization for enhanced weather ability, easy release for simplified molding availability in a range of opaque colors to suit various electrical parts requirement.

TECHNICAL DATA SHEET

PROPERTIES	TEST METHOD	TYPICAL VALUES	UNITS
RHEOLOGICAL PROPERTIES			
MVR at 300°C, 1.2kg Load	ISO 1133	10	CC/10min
MFR at 300°C, 1.2kg Load	ISO 1133	11	g/10min
MECHANICAL PROPERTIES			
Tensile Stress, yield, 50 mm/min	ISO 527	65	MPa
Tensile Strain at break, 50 mm/min	ISO 527	70	MPa
Tensile Modulus, 1 mm/min	ISO 527	2350	MPa
Flexural Stress, yield, 2 mm/min	ISO 178	90	MPa
Flexural Modulus, 2 mm/min	ISO 178	2700	MPa
Izod Impact, notched 80*10*3 +23°C	ISO 21305/based on ISO 180/A	65	kJ/m ²
THERMAL PROPERTIES			
Vicat Softening Temperature	ISO 306/B50	140	°C
Vicat Softening Temperature	ISO 306/B120	142	°C
HDT/Ae, 1.8 MPa	ISO 75-2/A	122	°C
HDT/Ae, 0.45 MPa	ISO 75-2/A	136	°C
PHYSICAL PROPERTIES			
Density	ISO 1183	1.2	g/cm ³
Moisture Absorption (23°C / 50% RH)	ISO 62	≤0.3	%

PROPERTIES	TEST METHOD	TYPICAL VALUES	UNITS
FLAMMABILITY			
UL 94V-0 Flame Class Rating (3mm)	UL 94	VO	Class
GWFI 3mm @ 960°C	IEC 60695-2-12	PASS	°C
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	Hrs.	
Maximum Moisture Content	≤ 0.02	%	
Melt Temperature	280 – 300	°C	
Nozzle Temperature	265 – 275	°C	
Front - Zone 3 Temperature	255 – 265	°C	
Middle - Zone 2 Temperature	250 – 260	°C	
Rear - Zone 1 Temperature	245 – 250	°C	
Mold Temperature	80 – 100	°C	

DISCLAIMER

All sales conducted by Deepak Advanced Material Limited (Formerly known as OXOC Chemicals Limited) and its subsidiaries and affiliates (collectively referred to as "seller") adhere to the seller's Standard Conditions of Sale, available upon request, unless expressly agreed otherwise in writing and signed on behalf of the seller. While the information provided herein offered in good faith, the seller provides no warranties, whether express or implied, including those of merchantability, direct or indirect, regarding the performance, suitability, or fitness for the intended use or purpose of these products in any application. Each customer is responsible for determining the suitability of seller materials for their specific use through appropriate testing and analysis. No statement made by the seller regarding the potential use of any product, service, or design intended, nor should it be construed, to grant any license under any patent or other intellectual property rights. This is provisional TDS as on 05.05.2025. It is suggested to refer fresh TDS. It may revised based on research and development.